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# AMERICAN NURSERYMAN

*The Nurseryman's Forte: To Make America More Beautiful and Fruitful*

MAY 15, 1951



*Euonymus Sachalinensis*

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# AMERICAN NURSERYMAN

[Registered U. S. Patent Office]

*The Nurseryman's Forte: To Make America More Beautiful and Fruitful*

VOL. XCIII No. 10

MAY 15, 1951

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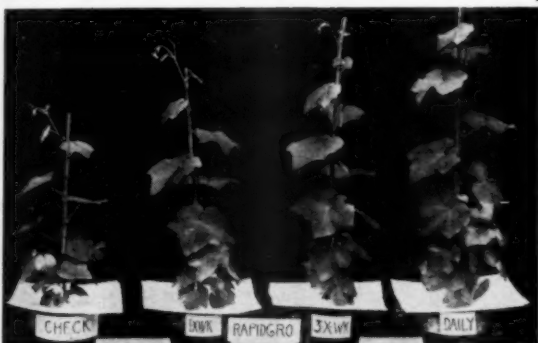
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## AMERICAN NURSERYMAN

F. R. KILNER, *Editor and Publisher*

Joan L. Kilner, *Assistant Editor*

### Editorial

#### SPRING DELAYED.

Cool and damp weather continued in a considerable area of the country until late in April, delaying public buying of nursery stock and bedding plants. If summer does not follow too quickly upon the heels of spring, so that trade has time to sell and the public time to plant, much of the business will be made up. Once more this season, landscape planters will have their hands full trying to catch up on orders.

The month of May was ushered in by record days of heat, the thermometer reaching 90 degrees at Chicago on May 1 for the first time in twenty-five years—the fourth consecutive day of 80-degree weather. The warm weather gave a sudden impetus to garden planting by the public.

The accumulation of merchandise in department stores and appliance shops, after the early stampede of the public to buy before scarcities developed has led to some apprehension about a recession in business. But those well informed on current economics say there is no reason for it, with plenty of money in circulation, employment high, government orders increasing and the public still buying liberally except for those items on which it was oversold earlier in the year.

#### WINTER BURN.

To the local winter injuries caused by storms of the past season, previously reported in these columns, a freak type of damage has appeared more or less generally in the area between the Allegheny mountains and the Mississippi river. This apparently is a form of winter burn, which shows as a slight browning on the past season's growth of yews of various types. The injury is not universal, but reports as to the appearance of yews come from here and there in the northern states between the confines mentioned.

Junipers and other conifers do not seem to have been affected this season, as they were by the more severe winter damage of a couple of years ago. Besides yews, the only evergreen affected is *Biota aurea nana*, a more tender plant and grown only in the

southern limits of the area mentioned.

Here is another problem for those who study hardiness in plants.

#### BETTER SHRUBS.

Forty-five of the best shrubs for Massachusetts gardens were discussed by nurserymen in an evening session at the New York convention, as reported in the April 15 issue under the headline "Panel on Better Shrubs." There the reporter appended a sentence or two about each shrub and its characteristics, gleaned from the panel discussion.

Any reader interested in further information regarding the selected forty-five will find comments on them, by Dr. Donald Wyman, who made the selections for the Garden Club Federation of Massachusetts, in the March 9 issue of *Arnoldia*, the popular information bulletin of the Arnold Arboretum, Jamaica Plain, Mass.

All of the shrubs discussed, it might be added, are available from some nurseries, and a list of sources is included in the bulletin.

Often a select list of this kind finds itself farther afield than originally intended, and it may be heard of in other states besides Massachusetts. So you might check over the list on page 34 of the April 15 issue of the *American Nurseryman* to see which ones are suitable in your area, which you are able to supply and which you should inquire into and possibly grow. For real progress, lists of selected plant material should have the attention of nurserymen as well as the garden clubs or other segments of the public, and at the same time, so that the public, on the one hand, will not lose interest because stock is not available, and the nurseryman, on the other, later will not complain because he has grown the items without finding any response from the public.

#### CHECK EQUIPMENT.

Worn farm equipment can be dangerous as well as irritating and time-consuming. When the spring planting season sends tractors with plows, cultivators, disks and planters into the fields, checking is especially important.

Defective hitches, seats, clutches, wheels, brakes, steering mechanisms

and unguarded revolving parts should receive attention. The National Safety Council has reported many fatal accidents caused by failures of makeshift seats and unguarded power take-off shafts. Platforms, pedals, foot rests or steps should be clean to assure safe footing.

Special care should be taken in checking homemade labor-saving equipment for accident hazards. The operator's safety often is overlooked when equipment of this type is built. Accidents can offset any advantage that might be derived from homemade equipment.

Timely servicing will reduce accidents as well as costly field breakdowns. Moreover, poorly conditioned farm machinery is irritating and fatiguing to the operator. It reduces his alertness and encourages carelessness. Field accidents often result when the operator attempts to improve faulty operations which should have been corrected before the machine was taken to the field.

#### RETAIL SELLING.

No matter how well established is a retail store or any other business enterprise, efficient selling is necessary to continued success. Prestige, quality merchandise and excellent service need to be backed by the right kind of selling to gain the maximum response from the public.

Recently Dr. N. H. Comish, professor of business administration at the University of Oregon, set out to find out why customers prefer one store to another.

Far ahead of any other reason for store preference was the "efficient salesman," with 34.4 per cent. In second place, but far below, was high quality of merchandise, with 13.1 per cent. In third place was wide choice of merchandise, with 9.7 per cent. Other reasons, with smaller percentages, were prompt service, low prices, location, etc.

The study made by Dr. Comish was confined to department stores and women's wear stores in Oregon. But retail selling in those establishments applies equally well to retail selling elsewhere.

Location, layout and appearance of the retail store or nursery are important. Stock and service are likewise. But a friendly, obliging, well informed salesperson not only books the best orders, but brings the customers back.

# Analysis of Nursery Industry Trends

In dollar volume, sales of nursery stock have nearly tripled in the past decade (physical volume is another story), while prices for nursery stock—wholesale, retail and mail-order—have about doubled. So show figures compiled in the headquarters office of the American Association of Nurserymen at Washington, D. C.

## Price Trends.

The 1951 analysis of catalog prices of nursery stock—wholesale, retail and mail-order—as made by the A. A. N. and summarized on the graph on this page, indicates that peak prices for all wholesale nursery stock were reached in 1946-47, when they rose to 210 per cent over 1940 levels; for all retail stock, in 1947 and again in 1949, when they were about 160 per cent over 1940 levels. On the basis of spring, 1951, catalogs, wholesale and retail prices are now about 150 per cent above 1940 levels.

Only since 1946 have data been published by the A. A. N. to show the price index of all mail-order nursery stock, and figures show that prices have remained fairly steady at about 200 per cent over 1940 levels, rising slightly higher in 1947 and again in 1950, with a downward trend this year to about 190 per cent at the present time. Data on mail-order fruit stock, which was recorded from 1940 to 1948, show that in this line the peak prices were reached in 1945, when they climbed to about 275 per cent above 1940 levels. They have fallen off since, as the graph shows.

The curve on the graph indicates a decrease in the 1951 wholesale price indexes of standard and small fruits, compared to 1950, while there is an upward swing for retail standard fruits. Retail prices on small fruits are static. Both wholesale and retail price listings on ornamentals have continued to rise the past couple of years. By and large, wholesale and mail-order prices on nursery stock in general have been dropping the past year or two, and, while retail prices took a dip a year ago, they are now recouping to 1949 levels. But are nurserymen's costs leveling off to the same extent?

The individual nurseryman may be interested in making further comparisons from these graphs. However, comparisons of present prices of nursery stock or of anything else with prewar or even with wartime prices do not mean much unless one

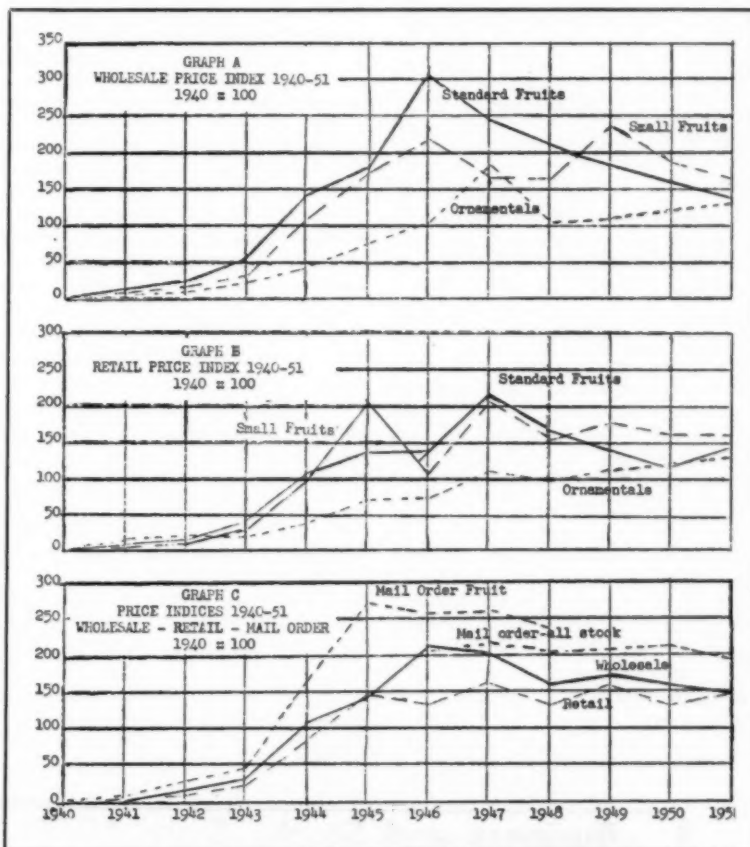
takes into consideration the changes in wages, transportation and other costs. Prices have increased, to be sure, but so have nurserymen's costs. Have the two increased in proportion?

## Industry's Dollar Volume.

A. A. N. members pay dues on a basis that approximately indicates their volume of business for the preceding year, except for minimum dues paying members, those who do

\$10,000 business or less for the year. Assuming that dues received for the A. A. N. fiscal year 1938-39 represent the dollar volume done in the calendar year 1937 and using this as a base of 100, it is possible to project the industry trend in dollar volume, as has been done in the table shown on next page.

One sign of an increase in business for nurserymen has been the downward trend in the percentage of minimum dues paying members for



## NURSERY STOCK PRICES.

Summary of the 1951 analysis of catalog prices of nursery stock as compiled by the American Association of Nurserymen. The charts indicate trends of price indexes with the year 1940 as a base of 100.

In graphs A and B, the solid line represents fluctuations in the price index of standard fruit nursery stock (apples, peaches, plums and cherries); the long-dash line represents fluctuations in the index of small fruit nursery stock prices (raspberries, strawberries and grapes); the short-dash line represents fluctuations in the index of ornamental nursery stock prices, as represented by a selected key list of ornamentals. Wholesale prices are based on the 100 rate, except hedge plants, where the 1,000 rate was used. Retail and mail-order prices are based on the "each" rate, except hedge plants, where the 10 rate is used.

In graph C, the solid line represents fluctuations in the wholesale price index of all nursery stock, including standard and small fruits and ornamentals; the long-dash line shows fluctuations in the retail price index of all nursery stock, and the short-dash line represents fluctuations in the mail-order price index. In the years 1940 to 1948 the mail-order index was for fruit only. In 1946 a new index was established for all mail-order stock, including the same items as for wholesale and retail. This index will be continued and will henceforth be comparable to the wholesale and retail catalog prices of nursery stock.



the past five years, from 48.8 per cent in 1943-44 to 33 per cent in 1949-50. The percentage rose slightly the past year because of an increase in the minimum dues effective this year. As of March 8, 1951, about 39.7 per cent, or 527 of the A. A. N.'s 1,327 member firms, are paying minimum dues.

From data on dues payments by A. A. N. members it is also possible to figure percentage increases in dollar volume each year, as are shown on the table. Except for a 2.4 per cent decrease in 1939-40 dollar volume from the preceding year, percentage increases have fluctuated from a low of 2.8 per cent in 1940-41 to a high of 18 per cent volume increase for 1945-46. While there has been a steady increase in dollar volume, which reached a peak of 277.4 per cent in 1950-51, over the 1937 base of 100, the rate of increase has slowed markedly for the past three years.

#### Department Store Sales Compared.

A comparison of sales volume in the nursery industry with that of the department store sales, which nurserymen consider one of their toughest competitors, might prove interesting. According to data published in April by the Chicago Tribune, department store sales have risen steadily since 1939-40. By comparing the data on the nursery industry trend in dollar volume given in the table at the upper right with data for department store sales shown on the graph below, one can see that department store sales showed a slightly greater increase from 1940 to 1945, with a more marked increase in the following years to 1948, when they showed a slight decline that brought them to a level with nursery stock sales at the end of 1949.

While dollar volume for the nurs-

#### NURSERY INDUSTRY TREND IN DOLLAR VOLUME

(As Indicated by A.A.N. Dues Payments.)

A. A. N. Fiscal Year	Based on Volume For the Year (assumed)	Compared to 1937 as 100	Annual Percentage Increase
1938-39	1937	100.0	.....
1939-40	1938	97.6	-2.4
1940-41	1939	100.3	2.8
1941-42	1940	106.2	5.9
1942-43	1941	120.5	13.5
1943-44	1942	128.2	6.4
1944-45	1943	145.0	13.1
1945-46	1944	171.1	18.0
1946-47	1945	201.0	17.5
1947-48	1946	235.0	16.9
1948-49	1947	244.2	3.9
1949-50	1948	256.4	5.0
1950-51	1949	277.4	11.7*

\*3.5 per cent of this increase is due to increased minimum dues; 8.2 per cent is due to increased dollar volume.

ery industry has since shown a steady increase, dollar sales for department stores took two record spurts, one in the middle of 1950 about the time of our entry into the Korean war and another sharp rise over the Christmas-New Year season, having since dropped back to a level around 275 per cent over 1940, which is approximately the same as for the nursery industry.

#### Picture of Past Decade.

A backward look at domestic and international economy and other conditions which affect sales volume and price trends helps to explain the increase in dollar volume and fluctuations in prices for the nursery industry.

Going back to 1940, the approximate starting date in the A. A. N.'s year-to-year comparison of sales volume and price trends for the nursery industry, we find that nursery sales were the best in ten years, owing partly to more building than in the previous decade. At this time

production was off on fruit trees, and nurserymen started to propagate more of them to meet an increasing demand.

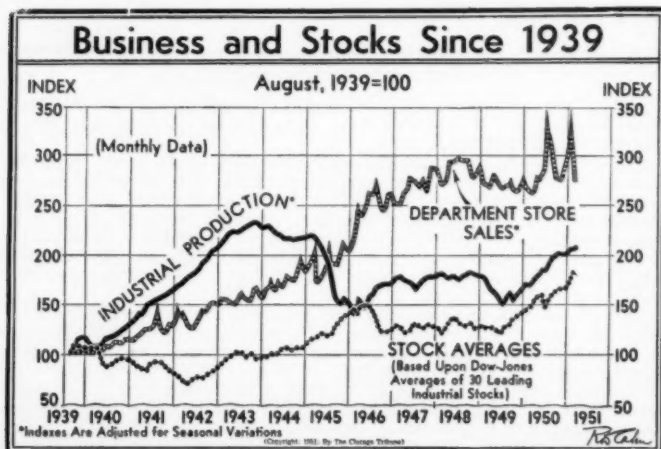
The following year, 1941, saw the greatest amount of home building since 1928, the start of more emphasis on national defense measures because of the war situation in Europe and the beginning of the defense garden program promotion by the federal government. That year rosebushes and some fruits were in short supply.

By 1942 the United States saw increased production of defense items; so public spending started to climb, reflecting the desire to purchase items that might later become scarce. For the nursery industry, spring sales were down after the record high of the previous year. Just at the end of the autumn planting season came the declaration of war. But the outcome of the victory garden conference, held only a couple weeks later, gave hope for maintaining sales volume.

The nation was in a real sellers' market by 1943, and the public was buying heavily. The nurserymen were faced with a good demand for their products, but the shortage of labor, because of men's going into defense work and the armed services, curtailed sales and production to some extent. There began moderate price advances in nursery stock.

In 1944 most nurserymen did all the business they could handle in view of the acute labor shortage. Heavy sales and limited plantings were the beginning of future shortages. However, the reduced supply of stock and the quickened demand had lifted prices out of the depths to which they had been forced during

[Continued on page 53.]





# A. A. N. Bound for New Orleans

## A. A. N. SPECIAL TRAIN TO NEW ORLEANS.

A special train to the annual convention of the American Association of Nurserymen has again been arranged by W. J. Smart, transportation chairman. Consisting of ten cars, all of them room cars except one, the train will leave Chicago July 12 at 3 p. m. central standard time from the Central station of Illinois Central Railroad.

For the benefit of passengers from St. Louis, Mo., and the surrounding area, one of these cars will leave St. Louis at 6:45 p. m. central standard time and will be attached to the special train at Carbondale, Ill., making almost direct connections. For the return trip, a car will be held on the Panama Limited for St. Louis passengers, which will leave New Orleans July 19 at 4:15 p. m., fifteen minutes ahead of the special train. This car will be dropped off at Carbondale, where it will be attached to the regular run to St. Louis.

The southbound special train will pass through Rantoul, Ill., near Chanute Field, one of the largest air training stations in the country; Champaign and Urbana, twin cities and the home of the University of Illinois; Centralia, the center of Illinois oil fields, and North Cairo, station for the old river town of Cairo, where Mark Twain and other personages of steamboat days met. Other cities of interest along the way are Fulton, named for Robert Fulton and actually two cities, separated by the Kentucky-Tennessee state line; Dyersburg, Tenn., the main trading center of the cotton-growing bottom lands, and Memphis, Tenn., the largest city in the state, but still reminiscent of history dating back to the first visit De Soto made to its site in 1541.

On the afternoon of July 13 the train will stop at Natchez, Miss., so that conventioners may visit many of the city's old homes of precivil war days. Among those to be visited are Cherokee home, built in 1794 and one of the oldest in the city, and Lansdowne, built in 1853 and still in the possession of descendants of its original owners. Others to be visited are Melrose, in which hangs Audubon's Natchez landscape; Montaigne, surrounded by century-old live oaks and a superb collection of azaleas and camellias; Twin Oaks, which was occupied by federal troops during the Civil war, and Rosalie,

General Grant's headquarters during the occupation of the city.

Reboarding the train at Natchez at 5 o'clock in the afternoon, conventioners will arrive at New Orleans the morning of July 14. After breakfasting on the train, they will be taken in waiting cabs to their hotels.

After the convention, the special train will leave New Orleans July 19, at 4:30 p. m., for the return trip to Chicago.

Because of the scarcity of railroad equipment for special trains, William J. Smart has urged that reservations be made early. A deposit of \$25 per person should be sent with reservation requests to Mr. Smart, A. A. N. Transportation Chairman, in care of the D. Hill Nursery Co., Dundee, Ill.

## BOAT TO NEW ORLEANS.

Forgoing the trip this year on the special train that will carry members of the American Association of Nurserymen and their guests to the annual convention at New Orleans will be Frank S. LaBar, of LaBars' Rhododendron Nursery, Stroudsburg, Pa., and C. W. M. (Charlie) Hess, of Hess' Nurseries, Mountain View, N. J., and their parties. They have booked all six of the 2-berth outside staterooms on the C-2 vessel of the Pan-Atlantic Line, operated by the Waterman Steamship Corp., which will sail from Baltimore, Md., July 5 and arrive at New Orleans July 12 or 13. Accommodations for four persons

are still available and may be booked by contacting Mr. Hess.

Although the LaBar party of six is flying home from New Orleans, Mr. LaBar advised that bookings on the freighter-passenger vessel were made through Air & Travel Service, 353 West Fifty-seventh street, New York 19, N. Y., and the travel service advises that the steamship company has northbound trips from New Orleans to New York, leaving New Orleans on Thursdays.

## CONVENTION CITY OFFERS OLD AND NEW.

Something of the Old World and something of the New World are offered visitors to New Orleans, La. When members of the American Association of Nurserymen and their guests gather at the Roosevelt hotel, New Orleans, July 14 to 19, for the association's seventy-sixth annual convention, they will find themselves in the modern part of the city that leads the south in population and commerce. When business is over each day, most conventioners will probably visit the old part of the city, the French Quarter, which offers a distinct foreign atmosphere.

New Orleans was founded in 1718 by the French, and the area of the Vieux Carre (old square) in the French Quarter, was carefully designed as a city by a French aristocrat in 1728. In 1763, the French king presented the colony to the Spanish, and the influences of settlers from the two old European nations



Lace Iron Balcony on Old Building in Heart of French Quarter.

combined to develop the Creole architecture that is so typical of the French Quarter. The old city is noted for its quaint architecture, characterized by exquisite iron railings and fancy iron-trellised balconies, graceful fan windows and myriad-shaped roofs. Charming little flagstoned patios, or courtyards, planted with colorful semitropical flowers and shrubs, form outdoor gardens inside many of the buildings that line the straight, narrow streets.

On November 30, 1803, the French once more took possession of the city, but twenty days later made the final transfer, this time to the United States. Ostracized by the Creoles, the Americans developed their own city outside the old town, and this former suburb is now the Garden District. It is a section of beautiful mansions, half-hidden in a profusion of great live oaks, sweet-smelling magnolias and many other kinds of trees, and boasting large gardens.

During the War of 1812, the British made a stab at control of New Orleans and the Mississippi river valley, but pirates joined forces with the Americans, and the British were defeated in 1815 at the battle of New Orleans. That decided which nation was to have control of the city once and for all, and with the security that followed, New Orleans entered an era of prosperity that reached its height in the decades before the Civil War, an era that has hardly since been equaled. It was during this period that the golden age of New Orleans architecture took place. The Vieux Carre was almost neglected in the wave of construction that swept across the city and threatened to send the Old Quarter into oblivion.

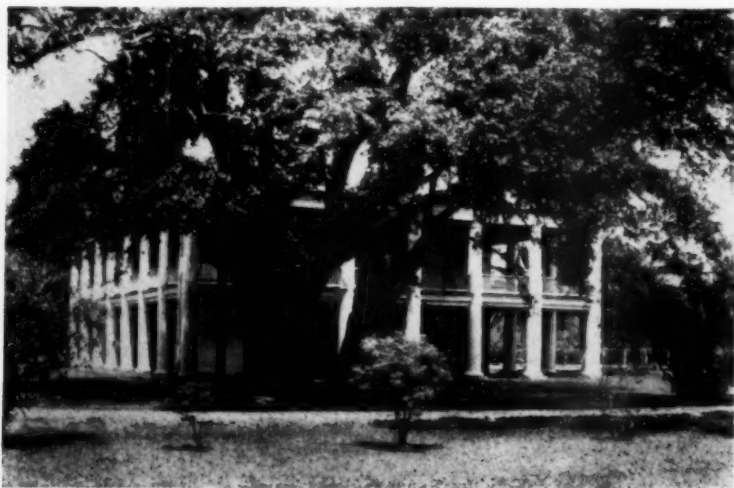
Just outside the city are many old

plantation homes, some of which are still well preserved and are brought back to life each year when they are opened to visitors during the spring fiesta in March. The great white columns of these mansions, rising from spacious lawns shaded by moss-draped oaks, serve as reminders of an almost legendary past, of the culture and wealth of the planter-aristocrats of the old south.

A strategic geographical location for domestic and foreign trade, availability of foreign raw materials, suitable climate to operate its industries the year around, good transportation facilities and an adequate supply of local labor have been contributing factors to New Orleans' development as an industrial and commercial center of the south. Most impressive are the \$3,000,000,000 port facilities, including more than eleven miles of wharves equipped with many mechanical devices. No other cargo port in the United States has advanced so far in mechanizing cargo handling and tiering. From this scene of physical activity it is only a few blocks to the executive offices of business and industry.

Second in foreign trade of the nation's ports, New Orleans has two unique institutions for promoting foreign trade and cementing foreign relations. One is the International Trade Mart, where products of the world are displayed and sold, and the other is the International House, a meeting place for peoples from all over the globe.

But a few more of the modern monuments to progress which New Orleans has erected are the huge Mississippi river bridge, Moisant International airport, the Bonne Carre spillway and the Lake Pontchartrain resort area.



Three Oaks, Typical of the Old Plantation Homes in and near New Orleans.

## NEW ORLEANS TO MEXICO.

Arrangements for a tour to Mexico City, Mexico, following the American Association of Nurserymen's convention at New Orleans, have been made through Ober Steamship & Tourist Agency, 808 Connecticut avenue, Washington 6, D. C., and nurserymen and their families who wish to make the trip should make reservations directly with the agency.

The trip will be made via Eastern Air Lines, Inc., from New Orleans to Houston, Tex., and via Pan American World Airways from Houston to Mexico City, where the group will be met at the airport and transferred to one of Mexico's finest hotels. The flight will leave New Orleans July 20, at 1 p. m., and arrive at Mexico City at 7:16 in the evening.

The first morning of the 2-day tour will be spent visiting the National Palace, the Castle of Chapultepec, the cathedral and other points of interest. The afternoon will be free for shopping.

On the second day a visit can be arranged to the floating gardens of Xochimilco or to the late afternoon bull fights. As the tour is planned, the return flight leaves Mexico City July 23, at 10:40 a. m., but a longer stay in Mexico, to give time for visiting Taxco and Cuernavaca, can be arranged.

## MEETING SCHEDULE FOR A. A. N. CONVENTION.

Nurserymen will begin gathering at New Orleans, La., Thursday, July 12, when the board of directors of the American Association of Nurserymen starts its semiannual summer sessions. Representatives of nurserymen's organizations allied with the national association will arrive Friday, July 13, for committee meetings, and full meetings of affiliated groups will start Saturday, July 14. All meetings will be held at the Roosevelt hotel, headquarters for the seventy-sixth annual convention of the American Association of Nurserymen.

### A. A. N. Meetings.

While the A. A. N. board of directors will hold meetings July 12 to 14, delegates to the board of governors will not be called upon for duty until 9 a. m. Monday, July 16, when regions 2, 4 and 6 will hold caucuses. Delegates from all six regions will meet at 10 a. m. in the University room for the opening business session. The more formal opening of the convention, however, will be made the keynote luncheon at 12:30

[Continued on page 36.]

# Growing Methods for Salable Holly

By T. J. Dilatush

Hollies form taproots readily in light soils, especially in soils predominantly sandy and with a high water table. If hollies are left untransplanted in such soil for more than two or three years, taproots form and side roots spread away out. In digging a ball of normal size from such soil so many roots will be cut as to throw the holly into heavy shock. Hollies in such a state of shock seldom recover in less than two or three years.

The early myth that "holly is hard to grow" largely originated from attempts to dig holly from light soils where these elongated root systems were present.

Progressive nurserymen in the light soil areas have done a great deal to improve their older stocks of holly. Many had let their material go untransplanted during the war years; much stock up to 8 years of age was totally without benefit of fertilizer and had never been transplanted. Neglect had resulted in scraggly growth and brownish-green blotchy foliage. Some growers "got mad" and pulled the whole "shebang" out by the roots, bulldozed the area level and planted again. Their new stock has been periodically transplanted and fed until its foliage is a good dark green.

Others embarked on a root-pruning campaign with varied success. When only the laterals were pruned, it seemed that the tree continued to draw all its energy from the tap rather than to develop a fibrous root system from the pruned laterals. Thus faced with the necessity of pruning every root on the tree, including the tap, most growers elected to transplant as the easiest and best course.

In heavier soil areas, it would seem possible for a nurseryman to spend an equal amount of energy and get better results than his compatriot in the sand country. That is to say, in heavier soils holly will develop less tap, less elongated lateral roots.

In the early days of growing holly, the nurseryman in a clay area found that he could sell more holly than the nurseryman in a sand country. Because of the comparatively better root system, less holly would die or be severely set back after the customer had planted it.

Landscape and plant market men

have done much to influence growers to transplant. If a landscape contractor buys a holly at a fair price and if that holly "shocks" badly because of poor roots, he is unlikely to buy at that particular nursery again. By shopping around until they find reliable sources for holly with good root systems, landscape men have done much to encourage progressive nurserymen to obtain higher prices and greater profits for transplanted material.

## A Study of Fertilizing.

Holly is an exceptionally heavy feeder. Many growers do not realize the phenomenal amount of food a holly can consume in comparison with many other evergreens. The berries of the female have a lot to do with it in that they dominate. If the berries have not enough nutrient to grow and ripen, the parent just draws it out of the leaves until they are blotchy brownish or yellowish-green. Sometimes she even draws more—until the leaves drop off.

That is why in the wild, especially on infertile mountain slopes and in the starving pine barren sand sections of the coast, such poor-looking holly foliage may be found. It is why off-color well berried holly foliage is in evidence on the holiday market at Christmas. Mother Nature puts these berries out no matter how the foliage may suffer.

Even the male holly is a "pollinating fool." In the spring, trees which have been laden with pollen will often be late in putting out their new crop of leaves. The flowering draws from the reserves of an underfed male tree sometimes to the extent of causing the foliage to be unattractive.

Every now and then, exploring in the wild, we find an old man much interested in holly, who claims that he can tell a "he" from a "she." We eagerly follow him out on the mountain and find, nine times out of ten, that the apparent basis of his judgment is the color of the foliage. By observing the generally more yellow-green (underfed due to drain of berries) foliage of the female against the darker green of the male, he assumes that the simile will follow on the young hollies.

A curious thing about holly is its "black spot," which it seems to catch as a human being catches a virus.

When resistance is down (underfed), a wild holly is often observed to have black-spotted, blotchy leaves. The same holly, brought home to the nursery and planted in pure leaf mold or peat, will in the following years put out foliage totally free of leaf spot or blotch. In reverse, we often neglect to feed our fields of small stock the season before we transplant it. Before the season is over, it is almost a foregone conclusion that we shall find black spot on those suffering most from lack of food.

In traveling about the country, one notes numerous fields of holly with poor foliage. If their owners are asked how they feel about their holly, many will answer roughly as follows: If they have seedling stock, "I just have common holly; someday I am going to buy named varieties." If they have named varieties, "Look at the leaves on these; just as bad as wild holly."

The first fellow was giving up because he thought his wild stock was no good. The second was disillusioned because he thought he had been cheated. Actually both men were totally mistaken. Neither man was feeding his trees enough to obtain good dark green foliage.

Named varieties are too often taken to be a cure-all. It is commonly assumed that "all you have to do to get lots of berries and dark green foliage is to buy named varieties of holly."

Most of us will agree that, to grow a good crop, it is necessary to sweat and work with it, no matter how good the parentage may have been. The man who grows hybrid corn cannot expect to throw it out in the back weed lot and several months later reap a superior crop. The Indian who put a fish under each hill of wild corn would be bound to get a much better yield.

Such is the truth with named varieties of holly. They are not a cure-all. More than two-thirds of all the wild holly in the nation could be fed, watered, transplanted and cultivated into as beautiful stock as the average of the best named stock available.

All of that is not to say, however, that named stock is not superior under adverse conditions. In general it is. But, like the Indian with his fish and corn, it is possible to supply many people with perfectly satisfactory seedling holly that, if you feed



it well, will look better than some of the named stock in the nursery of the neighbor down the road—the neighbor who is Scotch with his fertilizer.

### Sales Psychology.

With business as good as it is today among nurserymen, few, if any of us, are starving to death, nor is the wolf even visible down the street headed for the door. However, there are barometers of comparative sales and of comparative prices that cannot be denied, no matter how great the current prosperity.

A perusal of all the wholesale catalogs in the normal desk drawer will reveal a number that list holly. There are variances, for example, in the price of a 5-foot holly as great as \$5 to \$30, net wholesale.

Perhaps you have noticed, in reading this article, the ways in which growing methods can influence price. If it is to advantage financially for a nurseryman to grow holly under a good program of transplanting, feeding and pruning, why, then, are poor hollies still to be found?

That question can be answered in many ways, but, perhaps, in general, it might be said that there are two answers. One is that there is such a demand for holly that almost anything can be sold. The retail customer is by no means always familiar with the differences between a good holly and one which will not be satisfactory. The second answer is partly the same as the first one, that the grower and buyer in general have not been familiar with good growing methods and poor growing methods

nor what constitutes the difference between the two. Adequate knowledge of these can, and will, be generally known only when enough publicity is given to it by trade organizations, test blocks at agricultural experiment stations, demonstrations, etc.

### Market Influences.

The market is influenced, therefore, in several ways:

One, by eye appeal. Obviously a 5-foot holly with poor leaf color and few berries will not command the price of a dark green-foliaged, well berried one. Many growers do not realize how much they can improve their stock by feeding. The course of time should change this, as more test and demonstration blocks are available at experiment stations and more knowledge is circulated among nurserymen.

Two, by "backfire" sales effects. That is to say, a holly with poor roots will backfire on the nurseryman who sells it. The tree will tend to look bad after it has been planted by the customer and generally will not start to recover for more than a year after purchase. The customer will tend to be disgusted with holly in general, will tell his neighbors not to buy holly or else will say that holly is hard to grow. "Better buy a cheap one from So-and-so's nursery" might well be their advice. This means reversion to the law of what the traffic will bear and that, if you will think of its implications, means low prices. To these nurseries, however, there will always be people coming to "try their luck" with holly. That fact

makes some nurserymen content to sit back with light sales. They do not realize what they are missing, or what is worse, how they are hurting their fellow nurserymen.

Three, by "chain-reaction" effects. The customer who buys a properly transplanted holly with dark green foliage will take it home and be de-

[Concluded on page 52.]

### SHIPPING ZONE MAP FOR MAIL-ORDER MEN.

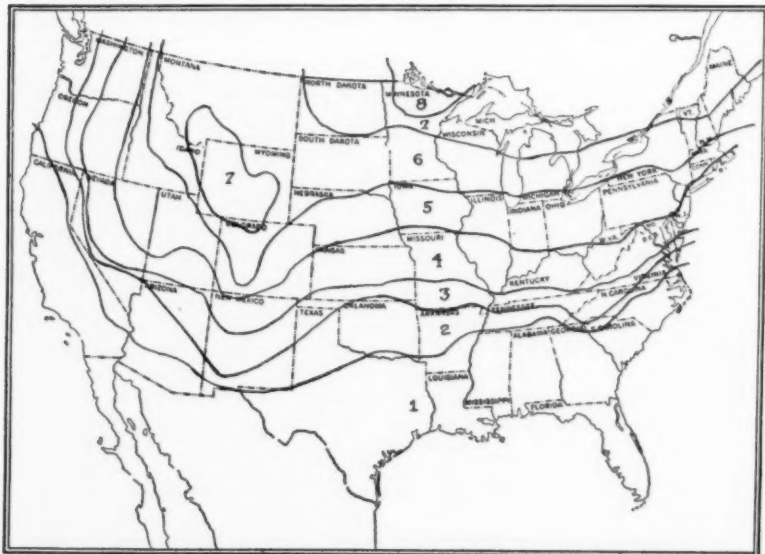
At its annual meeting last August the National Mail Order Nurserymen's Association adopted a shipping zone map which Andrews Nursery Co., Faribault, Minn., had tried out during the spring of 1950 and decided to make the map available to all members of the association. Kimball Andrews, president of the mail-order group, had his firm put in the zone lines in green and the zone numbers in red on a 21x30-inch outline county and state map of the United States, since no map company could be found to do the work.

Using information compiled by the United States Department of Commerce on weather in the United States over a 25-year period and other information gathered from members of the mail-order association, eight zones were established as shown on the map on this page, and shipping dates were figured for the average season, as follows:

Ship to	Dates
Zone 1	November 1 to January 31
Zone 2	February 1 to February 25
Zone 3	February 26 to March 11
Zone 4	March 12 to March 25
Zone 5	March 26 to April 8
Zone 6	April 9 to April 22
Zone 7	April 23 to May 6
Zone 8	May 7 to May 15

These dates are figured safe for shipment after each area has had 40-degree temperature for ten days. Because of unusual weather in parts of the country, it will be necessary each year to alter some of the dates, but the dates given here have worked well as a general guide.

In addition the Andrews Nursery Co. used the "Immediate U. S. Weather Report," issued daily by the United States Department of Commerce weather bureau at Washington, D. C., a service available for 60 cents per month, obtainable by sending a check or money order to the Treasurer of the United States, Superintendent of Documents, U. S. Government Printing Office, Washington 25, D. C. Some daily newspapers publish similar reports.



Shipping Zone Map Adopted by National Mail Order Nurserymen's Association.



# Pointers on Propagation

By James S. Wells

## EARLY PLANTING.

When considering propagation practices, we are likely to confine ourselves strictly to work in the propagating house. This phase, of course, is only the first of a long series of operations culminating in the production of a salable plant, and, therefore, it is surely in order for us to consider how best to care for our young plant material after the initial stages of propagation.

I am a great believer in early planting; the earlier, the better. Although this, of necessity, has to be tempered by prudence and by weather conditions at the time, I think it better to err in the way of planting too early than too late. This is certainly true for both rhododendrons and azaleas. We are prone to lose sight of the normal conditions which exist in the natural habitats of such plants as rhododendrons. There the plants grow at fairly high altitudes, and in the case of the Himalayan types, under more or less perpetual mist and rain.

Coolness, however, is the important factor to be considered in relation to early planting. Rhododendrons and azaleas commence root action early in the spring. If there is a mild spell of weather in February, they may send out small roots then, and certainly at the beginning of March root growth can be seen. For many plants, the soil temperature at this time of the year would be considered far too low, but it seems agreeable to rhododendrons, and there is no valid reason why they should not be planted out at the earliest possible moment that the ground can be worked.

From the point of view of maximum growth and the growing of the largest plants from young material in the shortest possible time, this early planting is a vital factor. Plants lined out early in the year will become established before the ground warms up too much and before the hot dry days of May and June arrive. These plants will then continue to grow through most of the summer, especially if they are mulched so that the roots are protected from the sun and if they are given adequate supplies of water.

The same reasoning holds true for magnolias, although with them it is perhaps wise to wait until a little later in the season, when the soil has warmed up just a little more,

before planting the young plants out. But certainly they should be removed from their winter quarters before any leaves are open and while the buds are still intact. We wait until the buds are swelling and signs of active growth can be seen on our magnolias. Then we plant them as rapidly as possible.

The importance of early planting to a different type of nursery stock was clearly shown last season on our grafted lilacs. These we graft in January on California privet, pack in boxes of moist peat to callus and, after some two or three weeks, removed the boxes to a cold-storage place. Because of the extremely wet cold season last spring, we were obliged to keep these boxes in cold

storage until the middle of May. From early April on, we tried at odd intervals to plant these grafts with our planting machine, but just as soon as we started, down would come another heavy shower of rain, and the ground was unworkable for two or three days. So our lilacs were planted piecemeal over a period of perhaps six weeks. All came out of storage in a completely dormant state and were planted without delay on light, sandy ground under irrigation. At the end of the year, we could see almost to the row just where each group had been planted, and those plants which we had managed to set out earlier in the season were larger and stronger, with a better root system, in every way better stock.

## PLANTING MACHINERY.

In considering this problem of early planting, we must inevitably come to the use of machines, for without their help it is almost im-



Above: Howard Rotovator working from Ford tractor to prepare beds for planting. Note heavy applications of humus on beds before planting.

Below: Close-up showing details of Howard Rotovator which cuts 50-inch-wide strip to desired depth up to ten inches.

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Ready for immediate shipment  
to fill your late orders

## SHRUBS

Almond, Pink-flowering, 2 to 2 1/2 ft.....	Per 100 \$50.00	Hydrangea A. G., 2 to 3 ft.....	Per 100 \$50.00
Barberry, Red-leaved, 15 to 18 ins.....	35.00	18 to 24 ins.....	40.00
Cornus Sanguinea, 3 to 4 ft.....	50.00	Hydrangea Peegee, 2 to 3 ft.....	50.00
2 to 3 ft.....	40.00	Philadelphus Coronarius, 2 to 3 ft.....	35.00
Deutzia Pride of Rochester, 2 to 3 ft.....	35.00	Rose Acacia (grafted plants), 12 to 18 ins.....	22.00
18 to 24 ins.....	25.00	Spiraea Prunifolia, 12 to 18 ins.....	25.00
Forsythia Intermedia Spectabilis, 2 to 3 ft.....	40.00	Spiraea Vanhouttei, 12 to 18 ins.....	14.00
Honeysuckle, Morrow, 2 to 3 ft.....	40.00	Symphoricarpos Chenaulti, 18 to 24 ins.....	22.00
18 to 24 ins.....	28.00	Tamarix Africana, 2 to 3 ft.....	30.00
Honeysuckle, Wheeling, 2 to 3 ft.....	40.00	Tamarix Hispida, 18 to 24 ins.....	20.00

## APPLES

11/16-in. and up.....	Per 100 \$45.00	Per 1000 \$400.00
9/16 to 11/16-in.....	40.00	350.00

Anoka  
Dark Red Delicious  
Yellow Delicious  
Deluxe  
Early Harvest  
Grimes Golden  
John's Crab

Dark Red Jonathan  
Dark Red McIntosh  
Early McIntosh  
Red Bird  
Stayman Dark Red  
Turley  
Winesap

## PEACHES

11/16-in. and up.....	Per 10 \$6.00	Per 100 \$55.00
9/16 to 11/16-in.....	5.00	45.00

Cumberland  
Delicious  
Raritan Rose

Shipper's Late Red  
Triogem  
Veteran

### 5-IN-1 APPLE

Heavy 3-year-old trees.  
11/16-in. and up, 5 to 6 ft.  
\$15.00 per 10;  
\$135.00 per 100.

### Paul's Scarlet Thorn

Well furnished trees.  
Per 10 Per 100  
5 to 6 ft. \$23.50 \$200.00  
4 to 5 ft. 20.00 175.00

# THE WILLIS NURSERY COMPANY

"Your Wholesale Nurserymen"

Ottawa, Kansas

possible to deal with the jobs at the right time. At various times mention has been made of machine planting, and there can hardly be a large grower in this country who is not using some type of planting machine. It would certainly be quite impossible for us to deal with the jobs we have to do without such machinery.

We recently changed from a single-row New Idea planter to a double-row machine of similar type, built to operate from the back of a Ford tractor. At the end of each row the planter is lifted and lowered by a hydraulic mechanism. Three years ago, when we first started to do planting by machine, we bought a single-row planter, but we now believe that the double-row machine is to be preferred. This is mainly because by using this machine we can cultivate two rows at a time, which was impossible with the one-row planter.

Much of our younger stock has to be planted in beds by hand, and the tilling of the beds to bring them into planting condition is one of our main headaches early in the spring. For rhododendrons, azaleas and almost all other stock, the soil in the beds has to be pretreated with peat, mushroom manure or some other form of organic material, and the beds then have to be rototilled to mix this well into the soil to bring the ground into right condition for planting. Until this spring we used the Howard rotary hoe for this purpose. It is an excellent machine, but, of course, it could not be used in six places at once. The manufacturer is now making an attachment to operate from the power take-off of a Ford tractor which cuts a 50-inch wide strip to any desired depth up to ten inches. We obtained one of these, and it has been in constant use for the past month. A gang of men with a dump truck and loader has moved large quantities of organic material and spread it on the beds. When twenty or thirty beds had been prepared, the Rotovator was put into operation on them, and, in a matter of an hour or two, the beds were ready for planting.

At the present time (late April), therefore, we have a number of areas prepared ahead to accommodate stock which we hope to plant within the next week or two. This means that the planters can go from block to block without hindrance of any kind, and streamlining the planting which should follow cannot help but increase efficiency and, above all, make it possible to set out the plants in well prepared ground at the proper time.

# KRIEGER'S WHOLESALE NURSERY

BRIDGMAN, MICHIGAN

Telephone 22

## SMALL FRUITS

All prices in this list are net—No discount. Orders for \$10.00 or less—Cash with order, please. These prices cancel all previous lists and are subject to change without notice. 250 or over at 1000 rate. Boxing at cost. All prices F.O.B. Bridgman.

GRAPES			
	Per 10	Per 100	Per 1000
Concord, 2-yr., No. 1.....	\$1.45	\$12.00	\$100.00
Concord, 1-yr., No. 1.....	1.20	10.00	80.00
Niagara, 2-yr., No. 1.....	1.65	13.50	110.00
Niagara, 1-yr., No. 1.....	1.35	11.00	90.00
Catawba, 2-yr., No. 1.....	1.65	13.50	110.00
Catawba, 1-yr., No. 1.....	1.35	11.00	90.00
Fredonia, 2-yr., No. 1.....	1.65	13.50	110.00
Fredonia, 1-yr., No. 1.....	1.35	11.00	90.00
Delaware, 2-yr., No. 1.....	2.00	17.00	140.00
Delaware, 1-yr., No. 1.....	1.65	13.50	110.00
Sheridan, 2-yr., No. 1.....	2.00	17.00	140.00
Sheridan, 1-yr., No. 1.....	1.65	13.50	110.00
Seneca, 2-yr., No. 1.....	5.00	42.00	350.00
Seneca, 1-yr., No. 1.....	3.60	30.00	250.00
Caco, 2-yr., No. 1.....	2.10	18.00	150.00
Caco, 1-yr., No. 1.....	1.45	12.00	100.00
Golden Muscat, 2-yr., No. 1.....	3.60	30.00	250.00
Golden Muscat, 1-yr., No. 1.....	2.20	18.00	150.00
Van Buren, 2-yr., No. 1.....	3.60	30.00	250.00
Van Buren, 1-yr., No. 1.....	2.20	18.00	150.00
Portland, 2-yr., No. 1.....	2.90	24.00	200.00
Portland, 1-yr., No. 1.....	1.65	13.50	110.00

RED RASPBERRIES			
	Per 100	Per 1000	
Latham, transplants.....	Sold Out		
1-yr., No. 1.....	\$6.50		
Chief, transplants.....	7.50		
1-yr., No. 1.....	6.00		
Sunrise, transplants.....	7.50		
1-yr., No. 1.....	6.00		
Indian Summer, transplants.....	8.50		
1-yr., No. 1.....	7.00	\$60.00	
St. Regis, transplants.....	7.00		
1-yr., No. 1.....	5.50		

BLACK RASPBERRIES			
	Per 100	Per 1000	
Cumberland, trans., No. 1.....	\$8.00	\$70.00	
Cumberland, trans., No. 2.....	6.50	55.00	
Cumberland, tips, No. 1.....	4.50	35.00	
Logan, trans., No. 1.....	8.00	70.00	
Logan, trans., No. 2.....	6.50	55.00	
Logan, tips, No. 1.....	4.50	35.00	
Morrison, trans., No. 1.....	9.00	80.00	
Morrison, trans., No. 2.....	7.50	65.00	
Morrison, tips, No. 1.....	5.00	40.00	

PURPLE RASPBERRIES			
	Per 10	Per 100	Per 1000
Sodus, transplants.....	\$1.20	\$10.00	
Sodus, No. 1 tips.....	.70	5.50	\$45.00

ASPARAGUS			
	Per 100	Per 1000	
Paradise and Washington			
3-yr., heavy, jumbo.....	\$4.00	\$30.00	
2-yr., No. 1.....	2.50	18.00	
1-yr., No. 1.....	2.00	12.00	

VICTORIA RHUBARB			
	Per 100	Per 1000	
Whole Roots			
1 1/2-in. and up.....	\$8.00	\$75.00	
1 to 1 1/2-in.....	5.50	50.00	
3/4 to 1-in.....	4.00	35.00	
1/2 to 3/4-in.....	3.00	25.00	

RED RHUBARB			
	Per 10	Per 100	Per 1000
Canada Red, No. 1 divisions.....	\$4.80	\$40.00	\$350.00
MacDonald, No. 1 divisions.....	3.60	30.00	250.00

HORSE-RADISH			
	Per 10	Per 100	Per 1000
Cuttings, 4 to 5 inches.....	\$0.50	\$3.00	\$20.00
Whole roots (crowns).....	.70	5.00	40.00

BLACKBERRIES			
	Per 100	Per 1000	
Eldorado, transplants.....	\$6.50		
No. 1 root cuttings.....	5.00	\$40.00	
1-yr., medium, root cuttings.....	3.50	25.00	
Alfred, transplants.....	6.50		
No. 1 root cuttings.....	5.00	40.00	
1-yr., medium, root cuttings.....	3.50	25.00	
Early Harvest, transplants.....	7.00		
No. 1, root cuttings.....	5.00	40.00	

BOYSENBERRIES and DEWBERRIES			
	Per 10	Per 100	Per 1000
Boysenberry, Common, No. 1 tips.....	\$0.70	\$ 5.50	\$45.00
Boysenberry, Thornless, transplants.....	1.65	13.50	110.00
No. 1 tips.....	.70	5.50	45.00
Lauretia Dewberry, transplants.....	.45	3.50	30.00
No. 1.....	.60	5.00	40.00

GOOSEBERRIES			
	Per 10	Per 100	Per 1000
Downing, 3-yr., No. 1.....	\$3.00	\$25.00	
Houghton, 2-yr., No. 1.....	3.00	25.00	
Champion, 2-yr., No. 1.....	3.00	25.00	
Poorman, 2-yr., No. 1.....	4.00	35.00	

CURRANTS			
	Per 10	Per 100	Per 1000
Wildor			
3-yr., heavy.....	\$1.50	\$15.00	\$150.00
2-yr., No. 1.....	1.45	12.00	100.00
1-yr., No. 1.....	1.00	8.00	60.00
Red Lake			
2-yr., No. 1.....	1.95	16.00	
1-yr., No. 1.....	1.45	12.00	

BLUEBERRIES			
	Per 10	Per 100	Per 1000
Prices of Hancock, Rubel, Jersey			
2-yr., 9 to 12 ins., bearing age.....	\$0.40	\$3.50	\$32.50
3-yr., 12 to 18 ins., bearing age.....	.55	5.00	47.50
4-yr., 18 to 24 ins., bearing age.....	.75	7.00	67.50



## PACKAGED STRAWBERRY PLANTS

Fancy, bright colored label. Full planting instructions on back of each label.

We have developed a new type of Strawberry package for over-the-counter trade.

This package is not a bunch of Strawberry plants wrapped up—the plants are individually laid in moss and rolled up so that the plants will not come in close contact with each other and rot out the center of the bundle.

Under normal conditions plants can be kept on the counter for two weeks without any loss. Can be held longer if watered.

Plants shipped in special telescope carton. Just take off the cover and set it on the counter. No heated plants under any conditions. Can be watered from top if necessary. Excess water runs out of bottom vent.

Packages packed with all tops up. Packed 35 to 50 packages per carton, depending on variety. The average weight per package is about 1 1/4 pounds.

### PRICES PER PACKAGE OF 25 PLANTS

Dunlap.....	\$0.45
Premier.....	.55
Robinson.....	.55
Gem (Everbearer).....	.60
Streamliner (Everbearer).....	.75
Superfection (Everbearer).....	.75

### STRAWBERRIES

	Per 100	Per 1000
Premier.....	\$1.60	\$11.00
Dunlap.....	1.30	8.00
Fairland.....	1.70	12.00
Robinson.....	1.50	10.00
Temple.....	1.70	12.00
Evermore, Minn. 1166 (Everbearer).....	2.10	16.00
Gem (Everbearer).....	1.90	14.00
Streamliner (Everbearer).....	2.20	18.00
Superfection (Everbearer).....	2.50	20.00

250 at 1000 rate



# STRAWBERRY PLANTS

Available for Prompt Shipment.

Grown in chemically treated soil free from disease and insects.

	25	100	250	1000
Ambrosia Late	\$0.40	\$1.25	\$2.25	\$ 8.00
Aroma	.40	1.25	2.25	8.00
Big Joe	.40	1.25	2.25	8.00
Blakemore	.40	1.25	2.25	7.50
Catskill	.45	1.35	2.50	8.50
Dorsett	.40	1.25	2.25	8.00
Dunlap	.40	1.00	2.00	7.00
Fairfax	.40	1.25	2.25	8.00
Fairland	.40	1.25	2.25	8.00
Fairpeake	.45	1.35	2.50	8.50
Gandy	.40	1.00	2.00	7.00
Gem (Everbearing)	.70	2.25	4.50	16.00
Lupton Late	.40	1.25	2.25	8.00
Mastodon (Everbearing)	.70	2.25	4.50	16.00
Massey	.40	1.00	2.00	7.00
Midland	.40	1.25	2.25	8.00
Missionary	.40	1.00	2.00	7.00
Premier	.40	1.25	2.25	8.00
Red Crop	.55	1.75	3.50	12.50
Red Star	.45	1.35	2.50	9.00
Robinson	.40	1.25	2.25	8.00
Streamliner (Everbearing)	.70	2.25	4.50	16.00
Southland	.40	1.25	2.25	8.00
Superfection (Everbearing)	.70	2.25	4.50	16.00
Sparkle	.40	1.25	2.25	8.00
Temple	.40	1.25	2.25	8.00

No extra charge is made for the package or packing. Write for special prices on large quantities.

Our Strawberry Plants are in cold storage in excellent dormant condition. They have been carefully dug, liberally graded, and will please your customers. We expect to continue shipping Strawberries in a satisfactory manner throughout most of the month of June. Make **BUNTINGS'** your headquarters for late orders.

See our advertisement in the Classified Section on Grapevines.

## BUNTINGS' NURSERIES, Inc.

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## TAXUS MEDIA HALLORAN

Past winters have proved this variety to be very well adapted for the middle western climate. We have 1, 2 and 3-year liners to offer.  
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**EUONYMUS RADICANS VEGETUS**,  
1-yr., 2 1/2-in., 5 to 7 ins., \$15.00 per  
100; \$135.00 per 1000.  
**ENGLISH IVY**, large leaf, 1-yr., 2 1/2-in.,  
\$15.00 per 100.  
**POLYGONUM AUBERTI**, good 2 1/2-in.  
pots, \$15.00 per 100.  
**AMPELOPSIS LOWI**, 1-yr., 2 1/2-in. pots,  
\$30.00 per 100.

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A. N. Pierson, Inc.

A complete line of well grown hardy plant material  
Evergreens and Lining-out Stock

## I.C.C. DECLARES NURSERY STOCK NONAGRICULTURAL

In a decision handed down April 23, the Interstate Commerce Commission, reversing the recommendation of its examiner, declared that nursery stock, flowers and bulbs are not agricultural commodities within the meaning of section 203 (b) (6) of the interstate commerce act.

This section exempts from certain provisions of the act "motor vehicles used in carrying property consisting of . . . agricultural commodities (not including manufactured products thereof) if such motor vehicles are not used in carrying any other property or passengers for compensation; . . ." The primary issue, as the commission stated in its decision, was the determination of the agricultural commodities.

Several decisions have been handed down on various phases of the controversy over a period of years. On May 8, 1948, the Secretary of Agriculture petitioned the I.C.C. for an over-all hearing. This was granted, and hearings began on November 9, when Robert H. Roland, executive secretary of the Society of American Florists, presented testimony on behalf of the nursery and florists' industry.

The examiner filed his report July 28, 1949, stating that plants were agricultural commodities. The railroad and trucking interests filed exceptions to it, and the commission then decided to reconsider the report. No further reports were made until the decision rendered April 23.

Although any government bureau or agency has the prerogative to determine its own definitions within the terms of an act under its administration, common precedent is followed for the most part. In this case, the I.C.C. has acted without regard to the definitions of agriculture established in numerous court cases and in other acts of Congress. Previous attempts to pass an all-inclusive act through Congress have not been successful, but, if the commission does not reverse itself, the case will have to be settled in Congress or in the courts.

The I.C.C. decision will be protested by the American Association of Nurserymen, which has already petitioned for a rehearing. And A. A. N. Secretary R. P. White states that the association is ready to take the case to court.

FORMERLY located at 1879 Mamnering road, Chagrin Falls, O., John L. Miller has established a new business on Route 1.



MAY 15, 1951

17

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AMERICAN NURSERYMAN

Chicago 4, Illinois

# Plant Notes Here and There

By C. W. Wood

A visit last year to a garden which I helped plant some fifteen years ago revealed many surprising things, one of the most pleasing being a bog planting in which nothing but natives had been used. The entire garden had received excellent care, of course, or the results would have been far less satisfactory, and some alterations had been made, but the bog planting, except for some thinning out, was just as I had left it fifteen years before. The original object of this particular planting had been to bring a tropical appearance to that part of the garden, and the goal was achieved.

If tropical effects are wanted in northern gardens, they are probably best and most easily obtained in bog plantings. Luxuriant growth, whether it be in the tropics or in the temperate zone, is nearly always found in plants which flourish in situations affording an abundance of moisture. Nor do we of the north have to depend upon tender plants for these effects, for we have a number of hardy subjects exactly suited to such a purpose. It is not even necessary to use exotic plants if one wants only American ones.

In the bog planting referred to above, I was especially struck by the effectiveness of three of these natives. One of the grasses, *Phragmites communis*, is a magnificent plant, growing as high as ten feet and producing long, drooping, feathery panicles in late August and September. Like many of the grasses, it spreads by means of running rootstocks, making a strong clump in a short time if given a deep, boggy soil.

Another plant used most effectively was *Hibiscus moscheutos*. It has grown in my ordinary garden soil to a height of three or four feet and has had blooms about four inches across. In this bog garden it was about eight feet tall with truly tropical foliage and flowers at least seven inches broad. As all gardeners who have grown many of the hibiscus species know, *H. moscheutos* is one of the reliable kinds for northern gardens.

Still another spectacular plant in this garden was the northwestern *Saxifraga peltata*. When recommended for this planting, the umbrella plant's hardiness in the midwest was questionable, but the owner wanted to try the plant after it was described

to him. The results have been all one could hope for under the treatment given it, which included a rich boggy soil and protection of a comparatively heavy mulch after the ground was frozen in early winter. Under that schedule the plant made broad clumps of 12-inch-wide leaves on 3-foot petioles. The flowers were small, borne in a corymb, and very light pink, some of them being white.

## *Valeriana Acutiloba*.

When spring arrives and I recall plants that have cheered this northern gardener, *Valeriana acutiloba*, a western valerian ranging from Wyoming to New Mexico, comes to mind as a pleasant addition to the list of April comers. Usually by the middle of the month we could expect 3 to 4-inch flower stems, which later elongated somewhat, in a nest

of pretty, light green, pinnately divided leaves, bearing heads of rosy flowers. Material from Wyoming was fully hardy here and probably would be anywhere. It gave no trouble from the cultural standpoint, doing well in our ordinary garden soil, preferably in part shade.

## Uncommon Geums.

While going over some notes written twenty-one years ago, I came upon the following on geums which I think may be repeated at this time with profit:

When geums are mentioned, the gardener usually thinks of such varieties as Mrs. Bradshaw or Lady Stratheden, or perhaps, Fire Opal and Princess Juliana today, not realizing that these popular varieties are but the point of departure for a pleasant journey among the

We can still furnish  
a few cars of

**TAXUS CAPITATA**  
in sizes 3 to 5½ feet.

All sold out on Lining-out Stock until Fall.

Write for quotations.

**LEGHORN'S EVERGREEN NURSERIES**

GEER ST.

CROMWELL, CONN.

**AVAILABLE**

	Per 100	Per 1000
2000 <i>Azalea mollis</i> , 2-yr., T, 4 to 8 ins. ....	\$25.00	\$200.00
<i>Taxus cuspidata capitata</i> , 2-yr. sdgls., 2 to 5 ins. ....	12.50	100.00

**FAIRVIEW EVERGREEN NURSERIES**

FAIRVIEW, Erie Co., PA.

aristocrats of the race. Commercial plant growers appear to be largely to blame for this condition, because they fail to offer anything in the geum line except a few hybrids which they reproduce vegetatively. That practice need not be slavishly followed, however, because many of the better species are available in seeds and fresh seeds come readily.

*Geum borisi* is perhaps best used in a rock garden, where, if given a lean soil, it will make mats of evergreen leaves which send up 6 to 8-inch stems crowned with lovely, bright orange flowers. Rich soil makes it too coarse for the rock garden, but its increased size of foliage and 12 to 15-inch stems under this culture fit it admirably for hardy border conditions.

Truly for borders is *G. bulgaricum*. There, in good soil, it is, in my viewpoint at least, better than either of the named varieties mentioned before. It has enormous, bright orange flowers on 15 to 24-inch stems, depending largely upon the richness of the soil, and is a splendid cut flower.

*Geum heldreichii* is an 8-inch plant with reddish-orange flowers for well drained light soil. One of the smallest of the geums is *G. montanum*. It is for sunny places in fairly lean soil in the rock garden. There it will spread into large mats of tufted foliage and produce many large yellow flowers in spring. It is an excellent rock plant, easily grown from seeds and, like most geums, easily kept in the garden if not allowed to dry out. Another low-growing species is *G. reptans*, spreading its tufted gray leaves about on slender runners like a strawberry and having pale orange flowers on 3 to 5-inch stems. It needs a well drained spot in the sun. *G. rossi*, a 5 to 7-inch plant, with shining green leaves and bright yellow flowers, is still another rock garden subject, a native that is seldom seen in gardens. To close these notes on geums, which are far from being complete, I would like to call the attention of other experimenters to *G. sibiricum*, a little-known plant with the most striking color to be found in the entire family. Bright red flowers with a coppery sheen, borne on 8 to 10-inch stems, make this one of the most brilliant of the geums.

#### Sempervivum Culture.

An object lesson in sempervivum culture will, I think, be found in a trip late last spring which took me directly from a nursery where sem-

[Continued on page 56.]

## CLOSING OUT— ALL DORMANT STOCK IN STORAGE

### PRICES REDUCED

#### SHRUBS

	Each
Althaea Bush, Red, Pink, Purple, 2 to 3 ft.	\$0.15
Althaea Tree, Red, Pink, Purple, 4 to 5 ft.	.35
Barberry, Red-leaved, 24 to 30 ins.	.40
Buddleia, Purple, No. 1.	.20
Buddleia, Pink, No. 1.	.20
Cercis Canadensis, 2 to 3 ft.	.40
Cornus Alba Sibirica, 12 to 18 ins.	.10
Cornus Alba Sibirica, 18 to 24 ins.	.15
Cornus Alba Sibirica, 2 to 3 ft.	.25
Cornus Alba Sibirica, 3 to 4 ft.	.30
Cornus Amomum, 12 to 18 ins.	.10
Cornus Amomum, 18 to 24 ins.	.15
Cornus Amomum, 2 to 3 ft.	.25
Cornus Amomum, 3 to 4 ft.	.30
Cornus Paniculata, 12 to 18 ins.	.10
Cornus Paniculata, 18 to 24 ins.	.15
Cornus Paniculata, 2 to 3 ft.	.25
Cornus Lutea (Golden Twig), 12 to 18 ins.	.10
Cornus Lutea (Golden Twig), 18 to 24 ins.	.15
Cotoneaster Acutifolia, 12 to 18 ins.	.20
Cotoneaster Acutifolia, 18 to 24 ins.	.25
Cotoneaster Acutifolia, 3 to 4 ft.	.35
Deutzia Pride of Rochester, 12 to 18 ins.	.10
Deutzia Pride of Rochester, 18 to 24 ins.	.15
Deutzia Pride of Rochester, 2 to 3 ft.	.20
Deutzia Pride of Rochester, 3 to 4 ft.	.25
Elaeagnus Angustifolia, 12 to 18 ins.	.15
Elaeagnus Angustifolia, 18 to 24 ins.	.20
Euonymus Europaeus, 12 to 18 ins.	.15
Euonymus Europaeus, 18 to 24 ins.	.20
Forsythia, Assorted, 12 to 18 ins.	.10
2 to 3 ft.	.15
3 to 4 ft.	.20
Fortunei, Intermediate, Primula, Spectabilis, Suspensa, Honeysuckle, assorted, 18 to 24 ins.	.15
2 to 3 ft.	.20
3 to 4 ft.	.25
Grandiflora, Morrowi, Pink Tatarian, White Tatarian, Zabeli.	
Hydrangea P. G., 3 to 4 ft.	.40
Lilac Vulgaris, Purple, 12 to 18 ins.	.15
Philadelphus Avalanche, 18 to 24 ins.	.20
Philadelphus Avalanche, 24 to 30 ins.	.25
Philadelphus Coronarius and Grandiflora, 12 to 18 ins.	.10
Philadelphus Coronarius and Grandiflora, 18 to 24 ins.	.15
Philadelphus Coronarius and Grandiflora, 2 to 3 ft.	.20
Philadelphus Virginialis, 12 to 18 ins.	.15
Philadelphus Virginialis, 18 to 24 ins.	.20
Privet, Regel, 12 to 18 ins.	.15
Privet, Regel, 18 to 24 ins.	.20
Rhamnus Frangula, 2 to 3 ft.	.20
Rhodotypos Kerrioides, 12 to 18 ins.	.15
Rhodotypos Kerrioides, 18 to 24 ins.	.20
Spiraea Billardi, 12 to 18 ins.	.10
Spiraea Opulifolia, 2 to 3 ft.	.20
Spiraea Opulifolia, 3 to 4 ft.	.25
Spiraea Opulifolia Nana, 18 to 24 ins.	.15
Spiraea Opulifolia Nana, 2 to 3 ft.	.20
Spiraea Opulifolia Nana, 3 to 4 ft.	.25
Symphoricarpos Vulgaris, 12 to 18 ins.	.10
Symphoricarpos Vulgaris, 18 to 24 ins.	.15
Symphoricarpos Vulgaris, 2 to 3 ft.	.20
Tamarix Amurensis and Gallica, 12 to 18 ins.	.10
Tamarix Amurensis and Gallica, 18 to 24 ins.	.15
Tamarix Amurensis and Gallica, 2 to 3 ft.	.20
Tamarix Amurensis and Gallica, 3 to 4 ft.	.25
Viburnum Molle, 2 to 3 ft.	.20
Viburnum Molle, 3 to 4 ft.	.25
Weigela Eva Rathke, 18 to 24 ins.	.15
Weigela Rosea, 18 to 24 ins.	.15
Weigela Rosea, 2 to 3 ft.	.20
Weigela Variegata, 12 to 18 ins.	.15

#### SHADE TREES

	Each
Elm, Chinese, 5 to 6 ft.	\$0.35
Elm, Chinese, 6 to 8 ft.	.60
Elm, Chinese, 1 1/4 to 1 1/2 in.	1.25
Poplar, Lombardy, 5 to 6 ft.	.15
Poplar, Lombardy, 6 to 8 ft.	.25
Poplar, Lombardy, 8 to 10 ft.	.30

Order in multiples of ten.

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ONARGA, ILLINOIS

# This Business of Ours

Reflections on the Progress and Problems of Nurserymen

By E. Sam Hemming

## CAMELLIAS.

The camellia plant deserves its widening popularity. Its increasing uses give rise to some additional thoughts on still more uses.

There are two types of camellias. First, there is the *Camellia japonica*, which is subtropical. It has been extensively hybridized in recent years, so that there are many new varieties, bearing exquisite double and semi-double flowers from pure white through the pinks to dark red. These have been principally but extensively planted along the southern rim of the United States and have more recently gained national prominence and use as handsome cut flowers in the florists' trade. The increasing appearance of such camellias at flower shows has been noticeable.

The other type is the *Camellia sasanqua*, a newer and hardier form coming into wider landscape use. Its normal hardiness seems to be in the middle to upper south, perhaps to North Carolina and then farther north along the coast. In fact, I have seen a few of these shrubs that have been planted in towns that are close to the Chesapeake bay. I also know of several nurserymen in this section who are trying out *Camellia sasanqua* plants to see how they will behave, although not selling them. This type has not yet been so extensively hybridized, but no doubt in the future it will produce a range of flower types. This is a late fall-blooming type, and when in bloom it puts on a real show in the border planting.

For a number of years I have been discouraging our customers from trying plants such as camellias which are certainly doubtfully hardy in tide-water Maryland, yet I wonder if that has not been a mistake, not only from the point of the loss of business, but also from the point of actually depriving customers of a year or two of beauty for which they would willingly pay. Perhaps we sometimes carry to an extreme the thought that a customer should count on the continued life of the plant we sell. There are many things that we buy in everyday life that are only of transitory use or enjoyment. We think nothing of buying cut flowers for an occasion, yet we hesitate to sell plants that could give only a season's enjoyment.

Maybe in their sales promotions

nurserymen think too much in terms of permanence. If they would lay more emphasis on types of sales that were annual repeats, they would profit more. And with that greater profit there would be developed greater diversity of beautiful plants and better plants. Some of our great industries are founded on the principle of repeat sales and others on the principle that customers pay for the development and improvement of the product. I used to think that these business philosophies bordered on the immoral, but I have changed my mind, for the alternatives to the two are complete lack of the product in the first case and development of the product by tax money in the second. Why should not this thought be applied to a wider use of such



## PRINCETON NURSERIES

### A very full line of Ornamental stock.

You will like our *Azalea Hinodegiri*, *Kaempferi* and *Kurume* hybrids, *Ledifolia Alba* and others.

Very fine *Magnolia soulangeana*.

All above stock nicely budded.

Hybrid Lilacs, excellent color range, 18 to 24 ins., 2 to 3 ft. and 3 to 4 ft.

Evergreens in good assortment including the better kinds. Also many of the popular priced salesyard varieties.

Very fine Flowering Crab Apples. Good variety list 4 to 5 ft., 5 to 6 ft. and 6 to 8 ft.

Flowering Shrubs in good assortment.

Vines, Hedge Plants, Ground Covers, etc., priced to make you money.

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Division of Seabrook Farms

### Wholesale Nurserymen

BRIDGETON, N. J.

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Specializing in the propagation of grafted lining-out stock of all kinds. Write for our new list of lining-out stock.

beautiful plants as the camellia? With the greater use, there would not only result greater enjoyment for more persons, but also the development of harder varieties. E. S. H.

## LAYERING.

My father often remarked that layering was a much-neglected but excellent way of propagating plants. It was his own opinion that the best way for a young man to start in the nursery business as a grower was through the use of layering, particularly if his capital was limited. He suggested that if the nurseryman would first plant a stool ground, or a stock ground, of layering plants, he could soon build up a good business.

Layering has these advantages: It

## NORTHERN-GROWN LINING-OUT STOCK

<i>Betula papyrifera</i>	Per 100	Per 1000
1 to 2 ft. ....	\$ 6.00	\$50.00
2 to 3 ft. ....	8.00	70.00
3 to 4 ft. ....	25.00	....
4 to 6 ft. ....	40.00	....

<i>Clethra alnifolia</i>	6 to 12 ins.	6.00	50.00
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<i>Ilex verticillata</i>	1 to 2 ft.	6.00	50.00
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<i>Syringa vulgaris</i>	1 to 2 ft.	6.00	50.00
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<i>Viburnum cassinoides</i>	1 to 2 ft.	6.00	50.00
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## EVERGREENS

<i>Abies balsamea</i>	4 to 8 ins.	4.00	25.00
	8 to 12 ins.	8.00	60.00

<i>Thuja occidentalis</i>	6 to 9 ins.	4.00	25.00
	6 to 12 ins.	5.00	40.00

<i>Tsuga canadensis</i>	4 to 8 ins.	4.00	20.00
	8 to 12 ins.	6.00	50.00

## EVERGREEN TRANSPLANTS

<i>Thuja occidentalis</i>	6 to 9-in. trans.	8.00	75.00
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<i>Tsuga canadensis</i>	4 to 8-in. trans.	12.00	100.00
	8 to 12-in. trans.	18.00	....
	12 to 16-in. trans.	30.00	....

The above stock is first-quality collected lining-out stock, except as otherwise noted. Send for complete list of Hardy Native Ferns, Lilies, Orchids, Wild Flowers, Trees, Shrubs and Evergreens.

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## ORNAMENTAL EVERGREENS

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P. O. Huntington Station, N. Y.



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Model NH (above) handles 3 to 6 cu. yds. per hour. Royers are available in gasoline engine, electric motor and belt-to-tractor drives — capacities from 1 to 16 cu. yds. per hour.



Contrary to the general impression that all you need do is drop a seed and then jump out of the way, growers in fertile Hawaii are users of rich, nourishing compost. Our picture shows an operation in this far-off territory where a Royer Model NH is busy preparing food for growing plants.

Florists, nurserymen, growers everywhere have found that the compost prepared with a Royer Compost Mixer is finer and more uniform in texture, spreads evenly without damage to tender plants, absorbs and holds moisture longer. Growth stimulating elements are quickly released . . . all plants and flowers thrive on a Royerated diet.

One or two men and a Royer replace a sizeable gang using manual methods. Investigate this "better compost at lower cost" method. Write for Bulletin 46.



## ROYER FOUNDRY & MACHINE CO.

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produces almost salable-size plants in a relatively short time and plants much larger than those produced by cuttings and grafting. A young nurseryman starting in business sometimes cannot do his work in an orderly way at the times the work should be done. Layering also has the advantage that it can be done at almost any time, and the layers can be taken off whenever the opportunity allows. In fact, layers can even be left on an extra year.

Layering has the advantage, too, of being successful with certain difficult plants; in fact, almost any plant will root in time by layering. It is a particularly successful method for propagating Chinese magnolias, although the layers must be left down two years.

Too often we are likely to think of layering as being an unsuitable method where quantity propagation is desired, but this is not true. Plants that sucker or shoot readily can be made to produce layers by the thousands, and great space is not

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Spring, 1951

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Not less than 25 of a variety at 100 rate. 500 or more take 1000 rate.

Terms: Cash with order and packing free; otherwise, 1/3 deposit with order and balance C.O.D. and packing charged. Shipment by express only.

Japanese beetle certification upon request.

	100 rate each		100 rate each
<i>Abelia grandiflora</i> , R.C.	\$.10	<i>Juniperus horizontalis glauca</i> ,	
<i>Althaea syriacus</i> ,		10 to 15 ins., XX, 3-yr.	\$.35
5 to 10 ins., S, 1-yr.	.03	<i>Juniper, Irish</i> ,	
10 to 20 ins., S, 2-yr.	.03	8 to 12 ins., XX, 2-yr.	.25
<i>Azalea kaempferi</i> ,		12 to 15 ins., XX, 3-yr.	.40
9 to 12 ins., XXX, 3-yr.	.65	<i>Koeleruteria paniculata</i> ,	
<i>Azalea mollis</i> ,		15 to 20 ins., 2-yr.	.25
12 to 15 ins., XXX, 3-yr.	1.00	<i>Laburnum vulgare</i> , S, 1-yr.	.10
<i>Buxus weileri</i> , 4 to 8 ins., X, 2-yr.	.20	<i>Larix europaea</i> , 12 to 24 ins., 3-yr.	.18
<i>Calycanthus floridus</i> ,		<i>Leucothoe catesbaei</i> ,	
6 to 10 ins., S, 2-yr.	.05	4 to 8 ins., XX, 3-yr.	.25
10 to 20 ins., S, 2-yr.	.10	6 to 10 ins., XX, 3-yr.	.35
<i>Chamaecyparis filifera aurea</i> ,		<i>Liquidambar styraciflua</i> , S, 1-yr.	.08
6 to 12 ins., X, 2-yr.	.25	<i>Philadelphus virginialis</i> , X, 2-yr.	.15
<i>Chamaecyparis lawsoniana</i> ,		<i>Picea excelsa</i> , 4 to 10 ins., 2-yr.	.10
8 to 12 ins., 2-yr.	.10	<i>Pieris japonica</i> ,	
<i>Chamaecyparis laws. altumi</i> ,		6 to 8 ins., XX, 2-yr.	.45
10 to 15 ins., XX, 2-yr.	.22	<i>Pieris mariana</i> , 8 to 10 ins., X, 2-yr.	.35
<i>Chamaecyparis laws. pendula</i> ,		<i>Pinus mughus</i> , 2 to 3 ins., 2-yr.	.08
10 to 15 ins., 3-yr.	.15	3 to 6 ins., X, 3-yr.	.15
<i>Cotoneaster horizontalis</i> , X, 2-yr.	.20	<i>Pinus nigra</i> , 6 to 10 ins., 2-yr.	.10
<i>Cotoneaster microphylla</i> , 2-yr.	.15	<i>Pinus strobus</i> , 4 to 8 ins., 2-yr.	.08
<i>Cytisus alpinus</i> , S, 1-yr.	.10	<i>Pinus sylvestris</i> , 4 to 8 ins., 2-yr.	.08
<i>Cytisus scoparius</i> , X, 3-yr.	.20	S, 1-yr.	.05
<i>Euonymus carrierei</i> ,		(500 or more at 1000 rate)	.03
4 to 6 ins., X, 1-yr.	.15	<i>Pyracantha lalandi</i> ,	
6 to 12 ins., XX, 2-yr.	.22	6 to 12 ins., X, 2-yr.	.20
<i>Euonymus coloratus</i> ,		<i>Quercus palustris</i> , 6 to 12 ins., 2-yr.	.10
4 to 6 ins., X, 1-yr.	.15	12 to 24 ins., 2-yr.	.15
6 to 12 ins., XX, 2-yr.	.22	<i>Rhododendron hybrid</i> ,	
<i>Euonymus fortunei erectus</i> ,		3 to 8 ins., XXX, 3-yr.	.55
4 to 6 ins., X, 1-yr.	.15	8 to 12 ins., XXX, 3-yr.	.85
8 to 15 ins., XX, 2-yr.	.20	<i>Sophora japonica</i> , 1-yr. adlg.	.08
12 to 18 ins., XXX, 3-yr.	.35	<i>Taxus capitata</i> ,	
<i>Euonymus vegeus</i> ,		6 to 8 ins., XX, 3-yr.	.25
4 to 6 ins., X, 1-yr.	.15	<i>Taxus cuspidata</i> ,	
6 to 8 ins., X, 2-yr.	.20	6 to 10 ins., XX, 2-yr.	.25
8 to 15 ins., XX, 2-yr.	.25	10 to 15 ins., XX, 3-yr.	.35
<i>Ilex crenata</i> ,		<i>Taxus media hatfieldi</i> ,	
3 to 5 ins., X, 1-yr.	.15	4 to 6 ins., XX, 2-yr.	.18
4 to 6 ins., XX, 2-yr.	.22	6 to 8 ins., XX, 2-yr.	.25
5 to 10 ins., XX, 2-yr.	.35	<i>Taxus media hicksii</i> ,	
<i>Ilex crenata bullata</i> ,		4 to 6 ins., XX, 2-yr.	.18
3 to 6 ins., X, 1-yr.	.15	6 to 8 ins., XX, 2-yr.	.25
4 to 6 ins., XX, 2-yr.	.20	<i>Thuja occidentalis</i> ,	
6 to 8 ins., XX, 2-yr.	.25	4 to 6 ins., S, 2-yr.	.10
<i>Ilex glabra</i> ,		6 to 12 ins., XX, 3-yr.	.20
6 to 10 ins., XX, 2-yr.	.30	<i>Thuja occ. elegantissima lutea</i> ,	
12 to 15 ins., XXX, 4-yr.	1.00	6 to 8 ins., XX, 2-yr.	.25
<i>Ilex rotundifolia</i> ,		<i>Thuja occ. globosa</i> ,	
3 to 5 ins., X, 1-yr.	.15	XX, 6 to 8 ins., 2-yr.	.25
4 to 6 ins., XX, 2-yr.	.20	<i>Thuja occ. globosa nana</i> ,	
6 to 8 ins., XX, 2-yr.	.25	4 to 6 ins., XX, 2-yr.	.35
<i>Juniper, Andorra</i> ,		<i>Thuja occ. plicata</i> ,	
6 to 9 ins., XX, 2-yr.	.25	6 to 10 ins., XX, 3-yr.	.25
9 to 12 ins., XX, 2-yr.	.35	10 to 15 ins., XX, 3-yr.	.35
<i>Juniperus can. aurea</i> ,		<i>Thuja orientalis</i> , 6 to 12 ins., 2-yr.	.10
5 to 8 ins., XX, 2-yr.	.25	<i>Tsuga canadensis</i> ,	
<i>Juniperus glauca hetzi</i> ,		6 to 8 ins., XX, 3-yr.	.20
8 to 10 ins., X, 2-yr.	.25	8 to 12 ins., XX, 3-yr.	.25
10 to 15 ins., XX, 2-yr.	.35	<i>Viburnum opulus</i> , S, 1-yr.	.08
12 to 18 ins., XXX, 3-yr.	.50	12 to 24 ins., 2-yr.	.18

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Broad-leaved Evergreens and a general line of quality ornamentals.

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needed. I saw my father obtain a large quantity of *Hydrangea Otaska* layers from a relatively few plants. The old Meehan nursery was famous for its *Hydrangea Peegee* layers, and this is a plant that would have to be propagated in quantities for its production to be profitable.

Layering is useful, even mandatory, in growing certain types of plants. We received two new filberts from the United States Department of Agriculture and wasted several years grafting them. These plants sucker so badly that grafting proved impractical. It was impossible to keep the suckers down.

My father used a method of layering on a number of kinds of plants, and it was certainly easy to do. He used this method on perennials and certain bushy deciduous and evergreen shrubs. He used it on such plants as hardy carnations, thyme, lavender, box bushes and other plants that come from a short central stalk and do not sucker. All he did was to open up the center of the plant and shovel a mound of soil in, and when this was done, the result looked like a fringe of leaves around a bald head. He did not even scarify the stems.

As I mentioned previously, almost any plant will root as layers, but in one direction my father was baffled. He layered some side branches of evergreens, such as spruce and fir, and, while they rooted, he never could make them form leaders.

In the deep south and in greenhouses certain tropical plants have been propagated by mossing or aerial layering. Recently a method has been developed for using the same procedure in temperate zones. It consists of cutting a thin sliver in the bark, wrapping the area with a ball of sphagnum moss and covering the moss with a plastic paper which holds in the moisture. The moisture loss made aerial layering impractical before the plastic paper was developed. This material is now available at nursery supply houses.

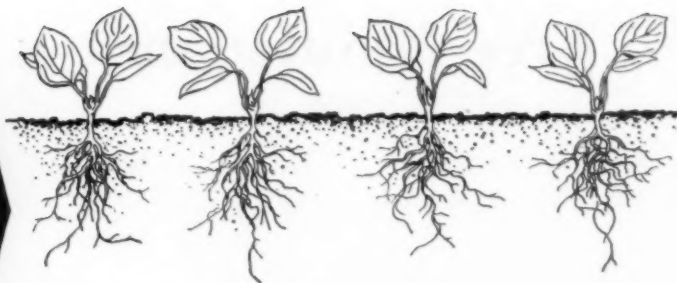
So do not overlook the possibilities of using layering in your nursery propagation whether your nursery is large or small. Methods of propagation, like all things, run in fads, and, as my father often said, right now nurserymen are graft crazy.

E. S. H.

CHANGE of address has been announced by Acme Landscape Co., which has moved from 3345 Lincoln avenue, Chicago, Ill., to 3813 North Clark street.

*let's look  
underground!*

**control  
soil pests  
and  
weed seeds  
with**



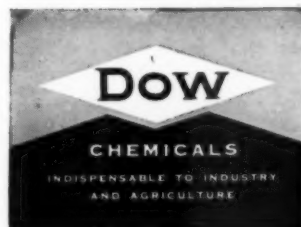
Growers are getting excellent results from the use of Dowfume MC-2 in seedbeds under glass and in the field. It kills most of the weed seeds present in the soil—also controls nematodes and other root-attacking parasites. At higher dosages, it controls many plant diseases.

Dowfume MC-2 does a real job throughout the tilled layer of soil. Useful for fumigating seed beds, propagating beds, hot beds, cold frames, and potting soils—it is easy to apply and aerates quickly.

Ask your Dow dealer or greenhouse supplier. Or write our Fumigant Division for full information.

# DOWFUME MC-2

THE DOW CHEMICAL COMPANY  
MIDLAND, MICHIGAN



## EXTEND OHIO LIEN LAW.

A bill to extend the mechanic's lien law to landscapers and nurserymen was passed by the Ohio house of representatives March 24, despite the fight against the measure led by Representative Roy Longenecker, who argued that the bill furnished no protection for a property owner. According to Representative Longenecker, a property owner would be forced to pay for all work, satisfactory or unsatisfactory, ordered by a tenant, even without the owner's approval. The vote was 68 to 47; sixty-eight votes were needed for passage.

## COMPANY PUBLICATION.

The first edition of "Famous Firsts" was published May 1 by Plant Products Corp., Blue Point, N. Y. The new publication, edited by an outstanding research scientist, was created for the purpose of giving the latest data on developments in horticulture and floriculture.

STARTING in the nursery business on two acres of land at 1126 Second avenue, Decatur, Ga., is J. S. Dobbs, proprietor of J. S. Dobbs Nursery.



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# Tree Maintenance

By Noel Wysong

## ELM AILMENTS.

Arborists undoubtedly will receive many telephone calls this summer from homeowners who, upon discovering wilted or discolored foliage on their elms, will fear that their trees are infected with Dutch elm disease or elm phloem necrosis. These diseases have been given so much publicity that people generally are for more aware of their existence than of the more common ailments that produce somewhat similar symptoms. Such calls should not be taken lightly, for there is always the chance that either of these elm tree killers may be found even in areas far distant from known centers of infection.

Fortunately, however, except in those areas where these diseases are prevalent, few, if any, phone calls will result in the discovery of new cases of either Dutch elm disease or elm phloem necrosis. There are a number of other less serious diseases, ailments traceable to adversities of site, and injuries of one kind or another, that cause wilting of foliage, death of branches and other symptoms rather similar to those of Dutch elm disease and elm phloem necrosis. It might be profitable for the practicing arborist to review in any of the many excellent technical publications available the following diseases and troubles, any one of which is likely to cause wilting and discoloration of elm leaves.

### Scorch.

Scorch is an injury common in areas where normally there is abundant rainfall in the early spring followed by summer droughts and periods of warm, drying winds. Seemingly, the moisture that is in the soil during the period of leaf formation plus, perhaps, a great deal of cloudy weather, induces the growth of a greater amount of leaf surface than can be supported by the lessened quantity of water in the soil during the summer drought periods. Affected leaves become yellow or brown along their margins, the dying areas frequently extending into the tissue between the veins. In severe cases of scorch, considerable defoliation may occur. Treatment usually includes fertilizing and watering.

### Wetwood.

Formerly known as slime flux, wetwood disease characteristically

produces a flow of sap from saw cuts made during removal of branches or from split crotches, wind-broken limbs or other wounds that penetrate the sapwood.

Often air-borne bacteria, yeasts or fungi lodge in the oozing sap, causing it to become slimy and decidedly malodorous. This disease is caused by a bacterium, *Erwinia nimipressuralis*, and is fully described by Dr. J. C. Carter, of the Illinois Natural History Survey Division, Urbana, Ill., in the bulletin "Wetwood of Elms." According to Dr. Carter, the bacterium causes fermentation of sap and production of gases which may create in the trunk pressures of thirty pounds of more per square inch. Sap accumulates in the infected wood, and, when it is

## AMERICAN NURSERYMAN

taken up in sufficient quantities by the current-season growth tissues, wilting of foliage on one or more branches occurs. The time-honored method of installing pipe drains to carry away fluxing sap and relieve the pressure is still recommended.

### Verticillium Wilt.

In elms affected by verticillium wilt the foliage on a single branch or on most of the branches of one side of the tree may wilt, turn yellow and fall. The causal agent is a fungus commonly found in the soil. It usually attacks through the root system, but pathologists state that insects can carry the fungus and cause infection through wounds in the trunk or branches. Tools used in

## EVERGREENS

### Northern-grown

CANADIAN HEMLOCK  
AMERICAN ARBORVITAE  
BALSAM FIR

	Per 100	Per 1000
2 to 4 ins., sdgls....	\$ 1.00	\$ 5.00
3 to 6 ins., sdgls....	2.00	10.00
* 6 to 9 ins., sdgls....	3.00	20.00
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* 12 to 18 ins., sdgls....	9.00	70.00
* 18 to 24 ins., sdgls....	25.00	....

\*Limited quantity of Arborvitae.

Freshly collected. Well rooted. Puddled and packed in sphagnum moss. Catalog of plants, ferns, etc., on request.

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Hardy Azaleas, Pink Dogwood, Jap. Red Maples, Old English Boxwood, Lilacs (French Hyb.), Evergreens, etc., in 1, 2 and 3-yr. transplants, at competitive prices. Write for list.

### DEERFIELD NURSERIES

DEERFIELD STREET P. O., N. J.

## THUJA OCCIDENTALIS COMPACTA ERECTA

### (NEW)

We offer this new variety in rooted cuttings; also established stock from 2 1/4-in. pots. Write for descriptive folder in color.

**THE WESTMINSTER NURSERIES**  
WESTMINSTER, MD.

## EVERGREENS

Seedlings and Transplants

For Spring, 1951

Write for price list.

**SUNCREST EVERGREEN NURSERIES**  
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On own roots.

Large plants, 5 ft. and up.

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AMERICAN ARBORVITAE, 10 ft.

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- ✓ Cultivates BETWEEN Nursery Rows (16 ins., over-all width)
- ✓ Prepares Seedbeds
- ✓ Pulverizes Compost Heaps
- ✓ Mixes Fertilizer with Soil
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- ✓ Low Price—Retails at \$134.00.

Powered by dependable, powerful 2-H.P. engine. Simple belt and enclosed roller chain transmission. All wearing parts extremely low in cost, if replacements required. Acclaimed everywhere demonstrated as 1951's "BEST BUY" in the tillage field.

The new 12-inch rotary cutter attachment was designed to mulch weeds in nursery rows. This cutter mulches any size weeds and can easily cut cornstalks off close to the ground. This 12-inch mulcher is only \$24.00 extra.

Nationally advertised and distributed—some attractive dealer franchises open.

Write us for complete details.

**ROTO-HOE AND SPRAYER CO.**

Dept. 25

**NOVELTY, OHIO**

pruning out infected branches should be sterilized by being dipped in mercuric chloride, a strong alcohol solution or other fungicidal material before being used again on other trees to avoid possible transmission of the disease.

In addition to the external symptoms of wilting and yellowing leaves, infected branches usually show brown streaking beneath the bark in the outer rings of the sapwood. Since similar external symptoms and streaking of wood as well are found in trees affected by the Dutch elm disease, positive diagnosis can be made only by means of laboratory culture tests. Treatment usually consists of pruning out all infected branches and making a liberal application of fertilizer to stimulate new growth.

### Dothiorella Wilt.

Also called elm dieback and cephalosporium wilt, dothiorella wilt disease, like verticillium wilt and the Dutch elm disease, causes wilting of the foliage, dieback of the branches and discoloration in the outer rings of sapwood. It cannot be positively distinguished from either of these diseases, except through laboratory culture tests. Elm dieback is caused by a fungus which, accord-

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(As pretty as we have ever grown, which means they are right good.)

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Berckmans Golden

Chase's Golden (Upright, Narrow)

Compacta (Green Columnar)

Elegantissima (Broad Base, Golden Pyramid)

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Azalea Hinodegiri, 2 to 6 ins., 2-yr., T.	Per 100
Baltic Ivy, 2-yr., R.C.	\$15.00
English Box, 2 to 3 ins., T.	6.00
3 to 4 ins.	7.50
American Box, 3 to 4 ins.	10.00
4 to 6 ins.	7.50
6 to 8 ins., T.	10.00
Ilex Bullata, 4 to 6 ins., 2-yr., T.	15.00
6 to 8 ins., T.	20.00
Ilex Crenata, 4 to 6 ins., 2-yr., T.	15.00
6 to 8 ins., T.	20.00
Leucothoe Catesbaei, 6 to 8 ins., T.	15.00

Send for list.

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### Trees, Evergreens, Shrubs Fruit Trees

Write for Our Wholesale Trade List

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**The STEDMAN NURSERIES**  
NEWFANE, N. Y.

## WANTED

Any quantity you will have to offer for delivery in the fall, 1951, season. Tell us how many you can supply and quote a price.

*Azalea Mollis*, 12 to 15 ins. and 15 to 18 ins.  
*Deutzia Gracilis*, 12 to 15 ins. and 15 to 18 ins.  
*Deutzia Lemoinei*, 15 to 18 ins. and 18 to 24 ins.  
*Deutzia Gracilis Rosea*, 15 to 18 ins. and 18 to 24 ins.  
*Euonymus Patens*, 18 to 24 ins.  
*Ligustrum Japonicum*, 2 to 3 ft.  
*Nandina Domestica*, 15 to 18 ins.  
*Clethra Alnifolia*, 18 to 24 ins.  
*Euonymus Radicans Vegetus*, 10 to 12 ins. and 12 to 15 ins., 3 Br. and up.  
*Ilex Convexa Bullata*, 8 to 10 ins.  
*Ilex Crenata*, 8 to 10 ins.  
Cherry, Weeping Subhirtella Type,  
5 to 6 ft., 1-yr. heads.

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**PYRAMIDAL ARBORVITAE**  
 Monroe, Michigan, Grown.  
 These are fine, full, uniform specimens.  
 Each per 10

2 to 3 ft.	\$2.75
3 to 4 ft.	3.75
4 to 5 ft.	5.00
5 to 6 ft.	6.50

**WOODWARD GLOBE ARBORVITAE**  
 Each per 10

12 to 15 ins.	\$1.35
15 to 18 ins.	1.75

**CHOICE BOXWOOD**  
*Buxus Sempervirens*, Hardy-grown at our Virginia branch from Monroe cuttings.  
 Each per 10 up

12 to 15 ins., B&B.	\$1.80	\$1.65
15 to 18 ins., B&B.	2.20	1.95

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**TAXUS MEDIA NICKSI**  
 Fine heavy plants.  
 Each per 10 up

1 to 4	5 to 9	10 up
1 1/2 to 2 ft.	\$4.90	\$4.65
2 to 2 1/2 ft.	6.00	6.35
2 1/2 to 3 ft.	8.50	8.25
		8.00

**Michigan-grown Fruit Trees**  
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ing to Cynthia Westcott, in her book, "Plant Disease Handbook," recently has been renamed *Deuterophoma ulmi*. Spores of this fungus apparently are disseminated by rain, wind and possibly insects, and infection occurs through wounds in the leaves. Cankers, which are noticeable as depressed, dead bark areas, frequently develop on affected branches. Since infection usually progresses from the leaves and branch tips toward the trunk, the disease often can be eradicated from a tree by pruning the affected branch well below the lowest point of discoloration in the wood.

### Other Fungi.

A number of other fungi, listed by pathologists as belonging to the genera *coniothyrium*, *diplodia*, *phoma*, *phomopsis* and *sphaeropsis*, occasionally attack elms and cause leaf wilting and branch dieback. In some of these diseases branch cankers develop in the early stages of infection, while in others cankers do not appear until the infection has reached the larger branches. Since many of these fungi also cause brown streaking in the wood, laboratory cultures provide the only sure means of identification.

### Leaf Spot.

Several fungi attack the leaves of elms directly and cause the death of portions of the leaf tissue. Dr. P. P. Pirone, in his book, "Maintenance of Shade and Ornamental Trees," lists the fungus *Gnomonia ulmea* as being the most prevalent of these leaf spot diseases. On early spring foliage this fungus causes white or yellowish spots on the upper leaf surfaces. These spots increase in size and turn black, and the disease may cause considerable defoliation. On young elms infection may occur also on leaf petioles and small twigs. Other leaf spot diseases kill the leaf tissue along the midrib, veins and margins or produce irregularly shaped brown spots visible on both the upper and lower leaf surfaces. The recommended control of leaf spot diseases consists of raking up and burning fallen, infected leaves and application of a foliar spray containing a fungicide.

### Insects.

Such insects as the European elm scale, scurfy scale and others may cause the death of branches in a manner not unlike that resulting from fungous diseases. Close inspection will, of course, readily show if such insects are present.

### Nonparasitic Agencies.

Wilting of foliage and dieback of branches sometimes occur as a result





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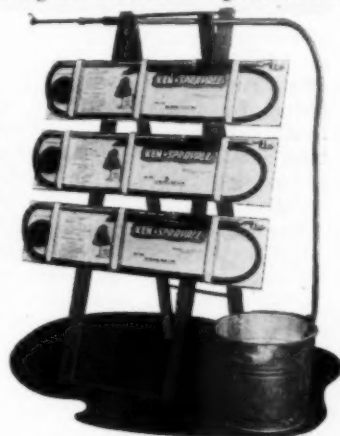
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of adverse conditions in which parasitic organisms are in any way connected. Leaking gas mains, girdling roots, grade changes, installation of subsurface drainage systems and consequent lowering of the water table, mechanical injuries and various other disturbances of normal conditions may cause a decline in the health of a tree which is evidenced by death of branches and foliage.

Elm phloem necrosis and the Dutch elm disease cause wilting of foliage and death of branches. But so also do many other elm tree troubles. In attempting to diagnose any elm disorder, the arborist should not overlook the probability that these symptoms may be of one of the more common but less publicized ailments.

N. W.

#### JAP BEETLE CHEMICALS.

In many sections of the country control of the Japanese beetle will be a problem again this year. Results of tests with various materials for control of this insect, as reported by Dr. George S. Langford, of the University of Maryland, indicate that DDT, BHC, Lindane, Parathion, Aldrin, Chlordane, Methoxychlor, Rhothane, Dieldrin and Toxaphene are effective, either as emulsions or as wettable powders. Used at the rate

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of one pound of technical material in 100 gallons of water, DDT, Methoxychlor, Chlordane, Moxaphene, Dieldrin, Aldrin and Rhothane gave satisfactory control in the field. Aldrin and Dieldrin were used as emulsions, but were not tested as wettable powders.

Results of laboratory tests, in which beetles were exposed to spraying and spray residues, indicate that Aldrin, Chlordane, Rhothane, Toxaphene, Dieldrin and Methoxychlor compare favorably with DDT when used in similar concentrations. Technical Parathion used at the rate of three-tenths of a pound in 100 gallons of water in field tests gave satisfactory beetle kill on infested plants.

The time lapse between application and effect of the different insecticides varied considerably. The gamma isomer contained in BHC and Lindane gave the quickest knockdown effect; Chlordane, the slowest. Methoxychlor, DDT, Rhothane and Parathion also gave quick results; Dieldrin, Aldrin, Toxaphene and Chlordane were slower in action, but produced good kills. Paralysis and death of the beetles occurred in from one to twenty-four hours following application. N. W.

DESIGNED especially to help the new homeowner, a series of radio programs featuring information on planning, planting and maintenance of lawns is being sponsored by Jennings Nursery Co., Jennings, La., and broadcast Sunday afternoons over a local station.

WHEN James N. Cummings was recalled to military service in February, the offices of secretary of the Illinois State Horticultural Society and the Illinois Fruit Council were left vacant until Harvey B. Hartline, nurseryman at Carbondale, was selected to fill these two positions, as well as that of treasurer of the council. Both the horticultural society and the one-year-old council have established permanent offices at Carbondale.

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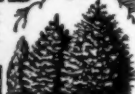
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## COVER ILLUSTRATION.

*Euonymus Sachalinensis.*

The deciduous, shrubby and small tree types of euonymus are outstanding fruiting plants. *Euonymus sachalinensis* (planipes) is no exception to the above statement; in fact, it has been designated as perhaps the outstanding fruiting species.

The Sakhalin euonymus is a small tree at maturity, averaging twelve to fifteen feet in height. This species is upright and spreading in its habit of growth and as a small tree may be grown with a single or multiple stem. It is native to northeast Asia and was introduced about 1892.

The generic name, euonymus, is taken from the old Greek word euonymos. The specific name, sachalinensis, refers to the Sakhalin territory within which it is native.

The bark color of the current twig growth and of old stems is interesting. The bark on the younger twigs is green or reddish-green, depending upon the degree of maturity and exposure to sun. In contrast with the younger twigs, the bark of the 2-year and older wood is grayish to reddish-brown. The winter buds are elongated, differing in this respect from most species of euonymus.

The leaves of the Sakhalin euonymus are large, varying from three and one-quarter to four and three-quarters inches in length. They are opposite and slightly toothed. The leaves are dark green above and somewhat lighter green below. The fall color is yellowish or yellowish-red.

The flower has little ornamental value in itself, but is the forerunner of excellent and attractive fruits, which are produced in late September and October. The fruit is borne on pendulous stems two to two and one-half inches or more long, as the cover illustration shows.

The Sakhalin euonymus is not particular as to soil and does well in full sun or partial shade. It is hardy and is not troubled with any serious insects or diseases. Scale may be present, but it has not been plentiful in our territory. Propagation is by seeds planted in the spring in well prepared soil.

*Euonymus sachalinensis* can be used as a small specimen tree, in shrub borders and at the corners of buildings where its height is not objectionable. This outstanding small tree should be used more abundantly in landscape plantings.

L. C. C.

# WAGE WAR ON SHADE TREE DISEASES

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## Coming Events

### MEETING CALENDAR.

May 20 to 22, Florida State Florists' and Nurserymen's Association, Tampa.

May 20 to 22, Louisiana State Horticultural Association, Heidelberg hotel, Baton Rouge.

May 22 and 23, short course for nurserymen, California State Polytechnic College, San Luis Obispo.

May 24 to 26, South Carolina Nurserymen's Association, Ocean Forest hotel, Myrtle Beach.

June 10 to 12, Alabama State Nurserymen's and Florists' Association, Admiral Semmes hotel, Mobile.

June 12 and 13, Oregon State College short course, Corvallis.

June 12 to 14, Texas A. and M. College short course, College Station.

June 13 and 14, Kentucky Nurserymen's Association, Gilbertsville.

June 17, Association of Kansas Landscape Architects, Salina.

June 22 and 23, New Mexico Association of Nurserymen, Hilton hotel, Albuquerque.

June 24 to 26, Mississippi Florists' and Nurserymen's Association, Edgewater Gulf hotel, Gulfport.

June 26 and 27, Missouri short course for nurserymen, Tiger hotel, Columbia.

June 27 to 30, Western Shade Tree Conference, Heathman hotel, Portland, Ore.

July 12 and 13, conference in nursery and landscape management, Michigan State College, East Lansing.

July 15 to 19, American Association of Nurserymen, Roosevelt hotel, New Orleans, La.

August 1, New Jersey Association of Nurserymen, Howe Nurseries, Pennington.

August 6 and 7, National Mail Order Nurserymen's Association, Hotel La Salle, Chicago.

August 27 to 30, National Shade Tree Conference, Netherland Plaza hotel, Cincinnati, O.

August 30 and 31, short course for nurserymen, Ontario Agricultural College, Guelph, Ont., Canada.

### FLORIDA MEETING PLANS.

The annual convention of the Florida State Florists' and Nurserymen's Association will be held May 20 to 22 at the Tampa Terrace hotel, Tampa, with William A. Nipper acting as convention chairman.

After the opening of the registration desk at noon Sunday, May 20, the program will begin with a buffet supper in the evening in the Palm room of the hotel. A fellowship and get-acquainted party will occupy the rest of the evening.

A general assembly for nurserymen and florists is scheduled for Monday morning. In the afternoon, the first session of the design school for florists will be held. Nurserymen will hold a separate meeting that afternoon, featuring a talk on hibiscus by R. D. Dickey, assistant horticulturist at the

Florida agricultural experiment station, Gainesville. It will be followed by a general discussion period. The greenkeepers' group will hold its annual business meeting at 10:30 a. m., followed by a symposium conducted by J. R. Henderson, soil technologist at Florida agricultural experiment station, Gainesville. A group of outstanding speakers has been scheduled for the greenkeepers' afternoon session.

In the evening the combined groups and their guests will enjoy "El Rancho Fiesta," a barbecue supper and dance at Villa Euse lodge amid the gardens of Moon lake.

Tuesday morning will begin with a general assembly meeting, includ-

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ing the election of officers. In the afternoon the nursery group will hold a general meeting, featuring a talk on propagation by Claude Scoles, propagator and grower for Glen St. Mary Nurseries, Glen St. Mary, followed by a discussion period. At the same time, there will be another session of the design school for florists and an election meeting of the greenkeepers.

Later in the afternoon there will be a panel discussion for all members of the association, led by James L. Blackledge, Ralph H. Lindeman and Gus Thomas. The convention will end Tuesday evening with the

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president's ball and a banquet in the Arbor room of the Hillsborough hotel. For those wishing to add a few extra days to their trip, a special excursion flight has been arranged to leave Wednesday morning for Cuba, with the return either Thursday or Friday evening.

#### LOUISIANA HORTICULTURAL ASSOCIATION CONVENTION.

More than 500 persons are expected to attend the annual convention of the Louisiana State Horticultural Association May 20 to 22 at the Old State Capitol building, Baton Rouge. The convention general chairman, Vernon U. Hunt, of Hunt's Florist, Baton Rouge, and his committee, who started plans for the meeting six months ago, have made arrangements for 1,000 visitors if necessary. The three local hotels are the Heidelberg, the King and the Istrouma. Housing reservations should be made with Mrs. Vernon U. Hunt, Hunt's Florist, 3342 Scenic highway, Baton Rouge.

Separate sessions will be held for florists and nurserymen, and a design school will be a feature of the florists' program.

Chairman of the nursery program is C. G. (Buddy) Simon, Jr., of C. G. Simon Nursery, Lafayette. A clinic for nurserymen will be held at Louisiana State University Monday, May 21, at 2 p. m. Dr. W. D. Kimbrough and Prof. R. H. Hanchey, both of the horticulture department of the university, will speak on "Horticultural Research Being Conducted at Louisiana State University." Prof. Ira S. Nelson and Dr. James A. Foret, of Southwestern Louisiana Institute, Lafayette, will speak on "Horticultural Research Being Conducted at Southwestern Louisiana Institute." A question-and-answer period will also be featured. Tuesday afternoon, May 22, a tour will be conducted through nurseries at Baton Rouge by Laverne Harper, of Magnolia State Nursery, Baton Rouge.

Sunday afternoon, the first day of the convention, Miss Catherine Huber, of Jennings Nursery Co., Jennings, third vice-president of the association, representing the landscape group, will conduct a meeting of landscape nurserymen and landscape architects at the Old State Capitol building for the purpose of better organizing these groups.

Entertainment at the convention will begin with the usual get-together party Sunday evening at the Heidelberg hotel. Renny W. Guay, of Reliable Wholesale Florists, Baton

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3-yr. sdigs., 4 to 6 ins.	4.00	35.00
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Rouge, is chairman of this affair. He plans a buffet supper, a musical program and other entertainment. State notables expected to be present include Governor Earl K. Long, Mayor Higginbotham and W. E. Anderson, commissioner of agriculture. The ladies' breakfast-fashion show will be held in the tearoom at Dalton's department store, Monday, May 21. That evening there will be a circus party at La Tropicana night club, to which conventioners are asked to wear suitable costumes. Fred Heroman, Jr., is in charge of the party. Climaxing the entertainment will be the president's ball and banquet Tuesday, May 22, at 8 p. m., at La Tropicana night club. Col. Earl P. Roy will be master of ceremonies. George Granberry, of Granberry's Wholesale Florist, is chairman for the party.

Besides the educational and entertainment programs there will be business sessions and a trade mart.

## SPEAKERS FOR CALIFORNIA COURSE.

Speakers for the annual refresher course for nurserymen to be held at California State Polytechnic College, San Luis Obispo, May 22 and 23, will include well known nurserymen from California and Oregon and also faculty members of the University of California, California State Polytechnic College and El Camino College.

California nurserymen who will speak are Syd Whitehorn of Sierra Nursery & Seed Co., Fresno, whose topic will be "A Small Nursery Owner Reports on his Thirteen Years in Business"; Martin D. Wickett, of Capital Nursery Co., Sacramento, "Self-service, How We Are Using It at Our Nursery"; Carl Tasche, of American Plant Growers, Inc., Lomita, "How to Handle and Promote the Sale of Bedding Plants"; James Gibbs, of Winsel-Gibbs Seed & Nursery Co., Los Angeles, "My Viewpoint on the Sale of Allied Lines in the Nursery Business," and Stanley Keane, of Roy F. Wilcox & Co., Montebello, "Caring For and Promoting the Sale of Indoor Decorative Plant Material."

A visiting speaker from Oregon will be Paul Doty, of Doty & Doerner, Inc., Portland, who will discuss "How to Handle and Promote the Sale of Field-grown Nursery Stock." Rudy Lindquist, a certified public accountant at San Francisco, will talk on "Profits or Losses."

From the University of California, Berkeley, Dr. A. E. Pritchard, professor of entomology, will speak on

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Arborvitae Pyramidalis,	2-yr. pots	\$25.00	\$225.00
Arborvitae Elegantissima,	2-yr. pots	22.50	
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Taxus Hicksi,	2-yr. pots	22.00	200.00
Taxus Browni,	2-yr. pots	22.00	200.00
Taxus Hunnewelliana,	2-yr. pots	22.00	200.00

## FIELD TRANSPLANTS

Juniper, Stricta,	8 to 12 ins., T.	25.00	220.00
Juniper, Pfitzer,	4 to 6 ins., T.	20.00	175.00
Juniper, Pfitzer,	6 to 8 ins., T.	22.00	200.00
Juniper, Pfitzer,	8 to 12 ins., T.	28.00	250.00

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MOBILE, Crichton Sta., ALABAMA



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NURSERIES**

AZALEAS - CAMELLIAS  
and other choice evergreens

Wholesale Catalog SEMMES, ALA.

"New Developments in Sprays and Insecticides." Prof. John Gallagher, from the University of California, Los Angeles, will discuss "Turf Problems of the Nurserymen."

Prof. Kenneth Kitch and Prof. James Merson, both at California State Polytechnic College, will discuss "How to Use Advertising in the Nursery Business" and "Nursery Machinery and Maintenance Problems," respectively. "Ornamental Horticulture Propagation" will be the topic of Charles Luger, of El Camino College, El Camino.

The panel discussion at the short course will be devoted to "Looking At the Nursery Business from the Customer's Viewpoint."

### SHADE TREE DATES.

The twenty-seventh annual meeting of the National Shade Tree Conference will be held at the Netherland Plaza hotel, Cincinnati, O., August 27 to 30.

The western chapter of the conference will meet June 27 to 30 at the Heathman hotel, Portland, Ore.

### NEW MEXICO CONVENTION.

All licensed nurserymen and their wives in New Mexico and surrounding areas have been invited to attend the first convention of the New Mexico Association of Nurserymen, which will be held June 22 and 23 at the Hilton hotel, Albuquerque. For full details and reservations, those interested should contact David Gaunt, of Heights Nursery, Albuquerque, or Frank Feather, of Mesilla Park Plant Farm, Mesilla Park.

Speakers at the convention will include J. Frank Sneed, of Sneed Nursery, Oklahoma City, Okla.; John J. Pinney, of Willis Nursery, Ottawa, Kan.; Kenneth Haysler, of Cloverset Flower Farms, Kansas City, Mo., and Cecil Pregnaal, of Albuquerque.

### SET NEW JERSEY DATE.

The annual summer meeting of the New Jersey Association of Nurserymen will be held August 1 at Howe Nurseries, Pennington, N. J.,

### CANADIAN SHORT COURSE.

The fourth annual short course for the Canadian Association of Nurserymen will be held August 30 and 31 at Ontario Agricultural College, Guelph, Ont. Six lectures and a discussion session are planned for the first day, and the second day will be spent visiting Woodland Nurseries, Cookville, and Sheridan Nurseries, Sheridan.

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# New Books and Bulletins

## WOODLAND PLANTS.

Clarence and Eleanor G. Birdseye, of frozen food fame, who devote much of their time between business trips to their woods garden at Gloucester, Mass., have written "Growing Woodland Gardens" for amateur gardeners interested in wild flower and woods gardens. The 223-page book has been checked carefully against horticultural textbooks and was read by horticulturists for scientific accuracy, so that it presents botanically correct data in terms understandable to amateurs. Published by Oxford University Press, it is priced at \$4 per copy.

The first part of the book is concerned with planting and tending a woods garden. It begins with a discussion of woodland conditions; continues through the actual designing of the garden and the collecting of wild flowers for it, and concludes with chapters on shade houses, propagation and indoor forcing.

The last 146 pages, comprising the major portion of the book, are filled with descriptions of about 200 wild flowers and ferns native to woodlands of the northern states and the southern part of Canada, giving their habitat, range, blooming time, soil requirements and methods of propagation. This section is profusely illustrated with black and white line drawings by Walter L. Graham.

## "A FUCHSIA SURVEY."

Asserted by the publisher as being the most complete work on the flower ever published, "A Fuchsia Survey," a book of 170 pages, has for its author W. P. Wood, president of the British Fuchsia Society. Printed in Great Britain, the book has just been published in this country by Farrar, Straus & Young, Inc., at \$2.75.

Lengthy opening chapters are on the history of the fuchsia and brief botanical descriptions of about 100 species, those in cultivation being further described in a later chapter together with the most popular varieties.

Shorter chapters cover soils and fertilizers, propagation, greenhouse cultivation, outdoor cultivation, training, insect pests and hybridizing.

A final chapter is on fuchsias in America, where they have become quite popular on the west coast. Reversing the usual precedence, the

American Fuchsia Society was formed in 1929, whereas the British society was founded nine years later.

## NORTH AMERICAN FORESTRY.

Following the procedure in his previous books, Andrew Denny Rodgers III has presented a history of forestry in North America in connection with the biography of Bernard Eduard Fernow, whom he described as the first professional forester in North America and the leader in that branch of biology from his arrival in this country from Germany in 1876 until his death in 1923.

There is good reason for that rank, as the subject of this biography was the first chief of the United States Forest Service, dean of the first professional forestry school in America at Cornell University, editor of Forestry Quarterly, dean of the faculty of forestry at the University of Toronto and president of the Society of American Foresters and the Canadian Society of Forest Engineers.

## FRUIT TREES

Apple, 1 and 2-yr., Dwarf and Standard.

Pear, 1 and 2-yr., Dwarf and Standard.

Plum, 1 and 2-yr.

Sweet and Sour Cherry, 1 and 2-yr.

Quince, 2-yr.

Apricot, 2-yr.

Peach, 1-yr.

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## AMERICAN NURSERYMAN

In the 623 pages of this book the author presents not only Fernow's work, but also the accompanying advancement of forestry on the North American continent. An index of fifteen pages makes it a valuable reference volume, just published by the Princeton University Press at \$7.50.

The author, Andrew Denny Rodgers III began his series of botanical biographies with that of his grandfather, William Starling Sullivant, which was followed by three similar books, on John Merle Coulter, John Torrey and Liberty Hyde Bailey.

## NATIVE ORCHIDS.

Combining scientific data and popular information, as well as being a handsome book, "Native Orchids of North America," by Dr. Donovan S. Correll, of the United States Department of Agriculture, is

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Linnaeus Rhubarb, 1/2 to 1-in. cal.	3.00
Horse-radish Crowns	5.00
Horse-radish Roots	3.00
Sage Plant	12.00
Mixed Dahlia Tubers	12.00
Mme. Crozy or Y. K. Humbert	
Cannas	5.00

## GRAPEVINES

	Per 100
Concord, Fredonia, Niagara, 1-yr., No. 1	\$ 6.00
Beta, Bluejay, 2-yr., No. 1	12.00

## GLADIOLI

	Per 1000
Spotlight, No. 1	\$25.00
King Lear, Gardenia, No. 1	16.00
Token, Lulu Hunt, No. 1	16.00
M. Fulton, Florists' Mix, No. 1	14.00

Other grades, varieties, available. Hybrid White Hulleless lopop Popcorn, shelled, cleaned, very good, \$10.00 per 100 lbs.

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a welcome addition to the reference library. It is volume 26 in the "New Series of Plant Science Books" published by the Chronica Botanica Co., Waltham, Mass., and Stechert-Hafner, Inc., New York city, at \$7.50.

This 400-page volume assembles for the first time an account of all the North American orchids north of Mexico so far recorded. Included are a detailed description and discussion of each species. In addition, detailed cultural notes are supplied by Dr. Edgar T. Wherry, of the University of Pennsylvania, and John B. Watkins, of the University of Florida.

Every species is beautifully illustrated by line drawings by Mrs. Blanche Ames Ames (Mrs. Oakes Ames) and Gordon W. Dillon. In attractive blue cloth binding and printed on heavy cream paper, this volume is not only useful for its scientific definitions, but should stimulate interest in North American orchids.

#### SOCIAL SECURITY GUIDE.

As employers of personnel which comes under the category of agricultural labor, nurserymen may find of value circular A, January, 1951, entitled "Agricultural Employers' Social Security Tax Guide," which is available from the bureau of internal revenue. It gives instruction for reporting and payment of employer and employee taxes on the wages of farm employees including workers who perform services of a household nature in or about the private home of the employer or on a farm operated for profit.

Copies of this guide may be obtained from the local or regional office of the bureau of internal revenue to which the nurseryman has sent his income tax return.

#### BULLETINS RECEIVED.

A 4-page circular, No. 169, issued in March by the extension service at the State College of Washington, Pullman, is entitled "Control of Strawberry Root Weevils." Written by E. P. Breakey and David Brannon, the circular discusses briefly the habits of the insect pest and recommends a poison bait for its control.

Released by the agricultural extension service of the University of Wisconsin, Madison, in cooperation with the United States Department of Agriculture, circular 390, "Management of Bearing Farm Orchards," discusses pruning mainly, but also touches upon soil management and

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Prices each:	40c	35c	30c	30c	20c
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Double Red Rome	...	...	...	...	600
Double Red Stayman	...	...	...	300	500
Winesap	250	...	...	...	...
Yellow Delicious	...	...	100	...	100
Yellow Transparent	...	...	...	300	...
York, Red	1500	...	500	...	500

200 5-In-One Apple, 2-yr., 4 to 6 ft., \$1.00 each.

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	9/16-in.	7/16-in.	2 to 3 ft.	18 to 24 ins.
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Brackett	250	100	150	...
Early Elberta	300	...	500	500
Elberta	1000	...	4000	1400
Golden Jubilee	350	350	1300	...
Helehaven	700	...	1700	...
Mayflower	...	...	100	...
Redhaven	...	...	700	...
Shipper's Red	...	...	100	...
Southland	...	...	200	...
Sullivan's Early Elberta	1000	100	3000	500

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spraying. The 16-page circular was written by Conrad L. Kuehner.

Issued in April by the United States Department of Agriculture, "Fruit Thinning with Chemical Sprays," circular 867, will be of interest to the commercial orchardist. It is designed to guide him in adapting a new, more economical method of fruit tree thinning.

### MEETING SCHEDULE FOR A. A. N. CONVENTION.

[Continued from page 10.]

p. m. in the Grand ballroom. Another meeting will follow.

No sessions will be held by the A. A. N. Tuesday, but Wednesday, July 18, there will be a session of the board of governors at 9 a. m., in the Grand ballroom, and Thursday, July 19, there will be one at 10 a. m., in the University room. The final session will be held Thursday afternoon following luncheon in the Grand ballroom.

### Allied Trade Meetings.

The first of the many sessions of allied trade groups scheduled at the Roosevelt hotel during the convention of the American Association of Nurserymen will be a meeting of the stock committee of the Ornamental Growers' Association, Friday morning, July 13, with a full membership meeting the following morning. The stock committee of the Fruit Tree Growers' Association will meet in room A Saturday afternoon, July 14, with a full membership meeting Sunday afternoon, July 15. These meetings will all be in the Pan American room. All-America Rose Selections, Inc., will meet Saturday afternoon, July 14, in room H and again Sunday morning, July 15, in the Pan American room. Sunday afternoon there will be a meeting of the executive committee of the National Landscape Nurserymen's Association in room I.

Monday morning's activities for allied groups will commence with a breakfast meeting of the Baby Ramblers at 8 a. m. in the Pan American room. At 10 a. m. the National Association of Plant Patent Owners will meet in the Pan American room, with another session at 2 p. m.

Tuesday, July 17, will be a busy day. Breakfast meetings are planned at 8 a. m. for members of the Retail Nurserymen's Association of the United States in the Pan American room and for the Association of Nursery Association Secretaries in room I. The latter group will hold an all-morning session. The National Landscape Nurserymen's Association

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Red Pink Orange Yellow

In quantities of 5,000 seeds, \$12.00.

Van den Akker's Mixed Colors, same amount, \$6.00.

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## BALED SHINGLE TOW (CEDAR SHAVINGS)

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will hold its full membership meeting that day, with morning and afternoon sessions in the Gold room. Camellia growers will hold a special meeting Tuesday afternoon in the Pan American room, and occupying both morning and afternoon in the University room will be panel discussions on nursery growers' production.

Two breakfast meetings will start activities at 8 a. m. Wednesday, July 18. One will be in the Pan American room for members of the American Nurserymen's Protective Association, and the other will be in room I for members of the National Mail Order Nurserymen's Association.

### NEW MEXICO NEWS.

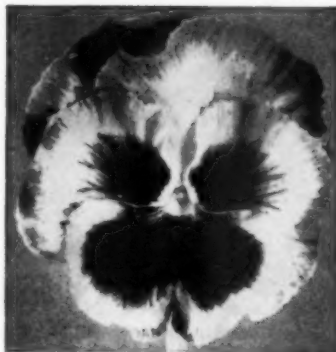
Because of a long extended drought, New Mexico nurserymen in the Rio Grande valley will be without water for irrigation purposes after the spring runoff. Most of them have depended in past years on El Vado dam, which is now being drained by Texas until the New Mexico water debt is paid, and their only recourse is to put down their own wells.

On the first day of Plant Albuquerque week, March 15 through 22, nurserymen joined together to plant the Home for Rita, a community project. Plans for planting the duplex home were drawn by Howard L. Davidson, of Dwarf Fruit Nurseries. At 9 a. m. workers from Baker Bros. Nursery, Gray's Flower Shop & Nursery, Dwarf Fruit Nurseries, Heights Nursery, Professional Landscaping Service and Sandia Gardens, all of Albuquerque, began planting flowering shrubs, shade trees, dwarf fruit trees and perennials. The group finished in a record time of forty-five minutes, and after the sprinkler system was installed, the nurserymen returned to plant the lawn.

Copies of the constitution and by-laws for the New Mexico Association of Nurserymen have been mailed to licensed nurserymen throughout the state. Members of the new organization are aware, however, that their list of New Mexico nurserymen is incomplete. Anyone who has not received a copy of the association's constitution and an invitation to the convention may write to David Gaunt, Heights Nursery, Albuquerque; Frank Feather, Mesilla Park Plant Farm, Mesilla Park, or Howard L. Davidson, of Dwarf Fruit Nurseries, Albuquerque. A. F. D.

ANNOUNCEMENT has been made of the opening of Modern Nursery, Baldwin Park, Calif.

## FOR EARLY BLOOMING



## Steele's Mastodon JUMBO MIXED

Considered by many the finest of all Steele's commercial pansies. Fully two or three weeks earlier than others. Thrives on cold weather. Brilliant colors.

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SEEDS—PLANTS—BULBS  
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Collectors of Tree, Shrub and  
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**STOP** to consider your needs—

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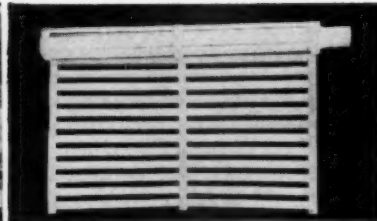
**SO POPULAR... SO MANY USES...**  
Attractive—Beautiful—Sturdy—Long lasting—Easily assembled—Light weight—Fireproof—Weatherproof—Designed to your requirements.



Patio Covering

**CHOOSE WHERE YOU WANT THE SHADE!**

Uniform shading from one foot to acres—Patios for gracious outdoor living—Lath houses for things you want to grow—For cold frames—Greenhouse coverage—Or you decide where!



Alumalath Rolls

5' Wide, 50' long, 12" diameter  
"lays like a carpet"

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## AMERICAN NURSERYMAN

### OFFER LANDSCAPE PLANS FOR PICTURE WINDOWS.

Many thousands of dollars are being invested by a leading window glass manufacturer in an advertising program that should not only sell its Thermopane glass but also result in more business for nurserymen, members of the American Association of Nurserymen in particular. The Libby-Owens-Ford Glass Co., Toledo, O., has prepared in cooperation with the A. A. N. market development and publicity committee a booklet of landscape plans for picture windows, which plans, as the booklet points out, are "not so lavish as to be beyond hope of most homeowners." Entitled "How to Put a Picture in Your Picture Window," the handsomely illustrated, 16-page, 8 1/2 x 10 3/4-inch booklet contains planting plans for various types of lots and gives detailed information about drapes and furniture, too.

To promote the booklet, the Libby-Owens-Ford Glass Co. is running a series of ten full-page advertisements in leading home and garden magazines, the first of which appears this month. Each advertisement shows a small photographic illustration of a real and rather nondescript landscape as seen through a picture window, while a large drawing shows how the view would look if the grounds were properly landscaped. A simple plan and planting material are suggested, and the copy states that "this simple planting plan, like all those in the book, was designed by a leading New York landscape architect, through the courtesy of the American Association of Nurserymen." And in the booklet A. A. N. members get a further boost, for it says "Your local nurseryman who is a member of the American Association of Nurserymen, identified by the insignia A. A. N., can help you achieve naturalism for your picture window. He will be glad to estimate the necessary landscaping and planting within your means. The work can be done as a whole or in units over as long a period as you desire. A trained landscape nurseryman can often save you considerable sums by adjusting your planting requirements to take full advantage of any existing plans. His experience in knowing which plants thrive best in your soil and climate will do much to assure you of year-around beauty."

Each planting plan is laid out for the northeastern and middle western section of the country, these being more complicated because of winter climates than other regions, but it is



a simple matter to substitute southern and western species to achieve the same effect. "Any member of the American Association of Nurserymen could adapt these plans for you quickly," says the booklet.

Copies are available from Libby-Owens-Ford Glass Co., 451 Nicholas building, Toledo 3, O., for 10 cents each.

#### NATION-WIDE BROADCASTS ON "PLANT AMERICA."

Two and one-half minutes was used on a recent Sunday afternoon program, "This Week at Home," to tell about the "Plant America" program of the American Association of Nurserymen. The story was broadcast over the American Broadcasting Co. network to a nation-wide audience.

A. A. N. secretary Richard P. White will be interviewed on the question "What Is Plant America?" by Bob Lewis on the "American Farmer" program Saturday, May 19. The program is heard from 1:30 to 2 p. m. eastern time over the A.B.C. network.

#### CHAMBER OF COMMERCE HEARS R. P. WHITE.

One of the featured speakers at the thirty-ninth annual convention of the Chamber of Commerce of the United States April 30 to May 2 at Washington, D. C., was Richard P. White. As executive secretary of the American Association of Nurserymen, he took part in a panel discussion on "What You Can Do Through Organized Effort to Meet Today's Situation," which was presented May 30 at the annual Citizen Responsibility luncheon at the Hotel Statler. Among those present to applaud him was Frank LaBar, of LaBars' Rhododendron Nurseries, Stroudsburg, Pa.

At the Organization night dinners May 1 leaders in organization work, together with their professional associations, the American Chamber of Commerce Executives and the American Trade Association Executives, were honored. Mr. White is a past president of the latter group.

As chairman of the trade association department committee of the Chamber of Commerce of the United States, Mr. White attended a luncheon meeting of the committee April 5 to discuss the government's materials controls plans. He was pictured in the chamber's national publication "Business Action" as he chatted with the guest speaker and a committee member.



Above — A FEW OF MONROVIA NURSERY'S MILLIONS OF LINERS

#### America's Finest Liners — Our Sales Prove It

Monrovia Nursery Liners out-sell all others because: (1) You can *always* depend upon their *fine quality*. (2) They are safety packed in *feather-weight* cartons **FREE OF CHARGE**. (3) They always arrive in *perfect condition*. (4) It costs *next to nothing* to ship them Express. Any way you figure, "M-N" Liners are your *best buy*, everytime. Below we list a few from our selection of over 400 varieties. In 2 1/4" pots, priced F.O.B. Monrovia. Minimum quantity 25 per variety.

	2 1/4" Pots	EACH
Bignonia cherere .....		20c
Bouvardia Coral .....		15c
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Ceratonia siliqua .....		15c
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If someone offers you a cutter "just as good" or tells you, "This is one and the same as the Redhead," look for the little *Handy-Man* trademark. "Ayer-Line Industries" is printed right across the little figure on all of our labels. Your guarantee of good nursery equipment and tools since January, 1947.

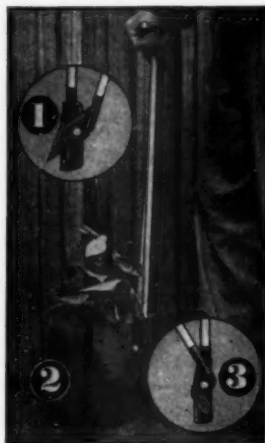
There is no substitute that can stand up against the Redhead Can Shear.



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**Ayer-Line  
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for names of authorized dealers.



\$6.75 ea.; 3 for \$17.50; 6 for \$30.36! Less 3 per cent for cash with order! Parcel-post Weights: 1 only, 5 pounds; 3, 14 lbs.; 6, 27 lbs.

## California-grown Rosebushes — Plus Service

We specialize in growing rosebushes for sale at wholesale in lots of 100 to 10,000. Through specialization we are able to offer the best in rosebushes and service. Your inquiry will receive our prompt attention.

**HOWARD ROSE COMPANY**

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The GEM STENCIL DUPLICATOR saves money... gets results quickly! Hundreds of uses for every type of business and organization. We ship the GEM complete with all supplies, Guide Board for accurate printing and 60-page Book of Ideas at the special low price of only **\$8.50** (a \$15.00 value)

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Use the GEM FREE at our expense! SEND NO MONEY. Write and complete GEM outfit will be sent you postpaid. After ten days, send us only **\$8.50** or return the GEM. You must be satisfied! WRITE TODAY.

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Pioneering Seedling Growers on  
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We have French and domestic Apple Seedlings, French and Bartlett Pear Seedlings, Mahaleb and Mazzard Cherry, Myrobalan and American Plum, Angers Rooted Quince Cuttings, Chinese Elm Seedlings and English Privet; also Shade and Flowering Trees. For this season, the shade and flowering trees are all sold; however, we are taking orders for fall of 1951 or spring of 1952.

If you have never tried our stock, give us a trial order.

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## Learn ORNAMENTAL HORTICULTURE

A thorough, constructive home training for employment or advancement in Nursery Operations, Park Supervision or Maintenance, Landscape Designing or Landscape Gardening. Send for Free bulletin. APPROVED FOR VETERANS.

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## ROSES—TREE ROSES

A fine selected list including patented varieties. Highest quality—all field-grown.

Write for list and prices.

**PACIFIC NORTHWEST ROSE NURSERY**  
P. O. Box 261 GRESHAM, ORE.

## TWO REDWOOD MEETINGS.

Twenty-three members and guests attended the March meeting of the Redwood Empire chapter of the California Association of Nurserymen held at the Mission Inn, San Rafael.

Henry R. Martin, of Martin's Nursery, Sebastopol, reported that the Sonoma county members of the chapter had met with the county fair board to discuss a new premium list and to set county fair dates for July 20 to 28. Clyde Von Grafen, of Rincon Nursery, Santa Rosa, who is to be in charge of floriculture exhibits at the fair, reported that the premium list, approved by most of the nurserymen at the meeting, had later been approved by the fair board.

A discussion concerning closing days for nurseries in Marin county was led by Donald C. Perry, of Sunnyside Nursery, San Anselmo. He suggested Sunday as a standard closing day, but no action was taken on the matter.

The chapter voted to send flowers to Frank Sprybrock, hospitalized at Portland, Ore. Mr. Sprybrock later died in a Portland hospital.

Chapter members discussed suggesting the raise in the cost of nursery licenses as a topic for consideration at the directors' meeting, which was held April 26 at the state office. After the showing of a color film, "Sierra Fish and Game," the meeting was adjourned.

Twenty-three persons attended the April meeting of the Redwood chapter, held at the Green Mill.

According to Donald C. Perry, July 4 to 8 will be the dates for the 1951 Marin art and garden show. The Marin county members agreed to display an exhibit representing the association, as requested by the board of directors for the show. Sonoma county members will enter an exhibit in the Sonoma county fair.

Chapter members agreed to support the Santa Rosa rose festival, which was represented at the April chapter meeting by Mrs. Leibescue, festival chairman.

Guests at the meeting were Mr. and Mrs. Cecil Bowman, who showed colored slides of some Santa Rosa gardens and rock garden plants.

Hugh Wallace, Sec'y.

## SAN JOAQUIN CHAPTER.

The monthly meeting of the San Joaquin chapter of the California Association of Nurserymen was held March 15 at the Yturri hotel, Fresno, where an abundant dinner was served at 7:30 p. m.

In attendance were the state association officers. William S. Clark,

state president, was on his official visit. He commented on convention plans and reported the functions of his job as president.

Elmer Merz, executive secretary of the state association, reported the activities of his office. He emphasized taking any and all action possible for the benefit of the nursery industry as a whole, including close scrutiny of legislation under consideration at the state capital and of information on price controls.

Walter Tecklenburg, state treasurer, reported that current dues, now payable, are being remitted in good order. He stressed the importance of maintaining a healthy financial reserve.

Convention chairman Willis Stribling told of plans for the convention, to be held at Yosemite, and announced a survey trip of Yosemite park facilities to be made in May or June.

Chapter president Virgil Cripe read a letter from Homer Dodge expressing thanks for the aid he received from the chapter in defraying expenses on his recent tour on landscape education. Douglas Glaspey, of G. S. Douglas Co., Fresno, was voted in as a new member.

Ivan L. Stribling, Sec'y.

#### HERTRICH GIVEN MEDAL.

The George Robert White medal, one of the most coveted horticultural awards in the country, was presented by the Massachusetts Horticultural Society to William Hertrich, curator emeritus at the Henry E. Huntington Botanical Gardens, San Marino, Calif., on the grounds of Huntington library after a luncheon in his honor given by the library trustees April 8.

For forty years before his retirement in 1947, Mr. Hertrich had been developing the library grounds into world-famous gardens. He was awarded the medal in recognition of his unusual ability as a landscape architect and his devotion as superintendent of San Marino Ranch.

#### NURSERIES AT ANAHEIM.

Located at Anaheim, Calif., both Gordon's Nursery, 512 North Los Angeles street, and Botts Nursery, 1228 West Lincoln avenue, were the subjects of write-ups in the Anaheim Bulletin in March.

Gordon Handsfield opened Gordon's Nursery at Anaheim seventeen years ago, after a 12-year association with another nursery in Orange county, California. He and his assistant, Calvin Stewart, offer customers

## PORTLAND WHOLESALE NURSERY CO.

306 S. E. 12th AVENUE

Avery H. Steinmetz  
Paul E. Van Allen

PORTLAND 14, OREGON

We are now booking orders for Season 1951-52. Our supply of good quality stock will be limited, but we are looking forward to the pleasure of again serving our regular customers.

### Quality Stock

CONIFERS AND BROAD-LEAVED  
EVERGREENS  
SHADE AND FLOWERING TREES  
FRUIT TREE SEEDLINGS  
FRUIT TREES  
DECIDUOUS SHRUBS  
VINES AND BULBS  
PORTLAND ROSES  
NURSERY SUPPLIES

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### A. MCGILL & SON FAIRVIEW, OREGON

*Wholesale only*

FRUIT TREE SEEDLINGS  
FLOWERING ORNAMENTAL TREES  
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Constant Vigilance Results  
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Combination carloads to Eastern  
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### MILTON NURSERY CO. MILTON Since 1878 OREGON

Flowering, Ornamental and  
Shade Trees

Oregon and Washington-grown  
Fruit Tree Seedlings

Angers Quince  
Rooted Cuttings

Our Combination Carlots to  
Eastern Distributing Points assure  
minimum transportation cost.

### EVERGREEN LINERS

Azaleas, Conifers, Heathers, etc.  
Available in rooted cuttings and field  
transplants grown in sandy soil.

Write for descriptive, illustrated  
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Wholesale Propagators and Growers of  
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AURORA, OREGON

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of  
General Nursery Stock**

### DEL RANCHO FORTUNA

California - grown  
**FRUIT TREES**  
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**GRAPEVINES**

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★ When packing bare roots or deciduous stock for shipment or storage, use Wood Feathers brand cedar shavings (red cedar shingle tow). There are 3 reasons for Wood Feathers' superiority:

1. Large moisture-absorbing capacity.
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BRAND


**CEDAR SHAVINGS**  
P. O. BOX 98 NORTH PORTLAND, ORE.





## Want to increase your FRUIT TREE SALES

then sell

**Stribling's**  
GROWING  QUALITY

## PEACH, NECTARINE & ALMOND Varieties

Grown on

**S37 ROOTSTOCK** PLANT PAT. 904  
America's finest nematode  
resistant Peach Rootstock

S-37 Seed is now ready  
and we are licensing nurseries  
to grow S-37 rootstock  
for 1951-52

Write for complete information.

*A complete line of  
Fruits, Nuts and Grapes*

APPLES  
CRAB APPLES  
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**We will Grow ANY  
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A Salesman's Reference  
Bulletin containing fact-  
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Today for your FREE  
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NURSERIES

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PHONE 56 P.O. BOX 793 MERCED, CALIFORNIA

advice on both gardening and land-  
scaping.

For four years Harold J. Botts and  
his wife, Mollie, have owned and  
operated Botts Nursery. Mr. Botts  
specializes in planting shade and fruit  
trees in addition to doing landscape  
design work. Although he first be-  
gan nursery work in his native Mis-  
souri, he has been a landscape artist  
in southern California for many  
years.

### CARRIER TO CALIFORNIA.

Appointed in November as instruc-  
tor and junior horticulturist in land-  
scape gardening at the University of  
California at Davis, Leonard E. Car-  
rier has taken over his duties this  
spring semester. A native of Virgil,  
N. Y., Dr. Carrier concluded work  
toward his doctorate in ornamental  
horticulture at Cornell University,  
Ithaca, N. Y., in February. He will  
teach nursery management and do  
some research work on the Davis  
campus. He is presently investigat-  
ing the factors that affect resistance  
of roses to low temperatures.

Dr. Carrier received his bachelor  
of science degree from Cornell in  
1948, after three years' service in the  
coast artillery, from which he was  
discharged as a first lieutenant. He  
is a member of the American Society  
of Horticulture.

### SEATTLE GARDEN WEEK.

Garden week was celebrated April  
2 to 8 at Seattle, Wash., as part of  
the spring fair staged throughout the  
month of April by the university  
district businesses. A spring flower  
and garden show, called "Salute to  
the Centennial," was held April 5  
to 8 at Malmo Nurseries.

One of the speakers at the free  
garden lectures presented each after-  
noon and evening at the nursery was  
Dr. John Hanley, garden editor of  
the Seattle Post-Intelligencer.

SPEAKER at a recent meeting of  
the North Hollywood Garden Club  
was Howard Howe, owner of the  
Devonshire Nursery, San Fernando,  
Calif.

OPENED in March by Mr. and  
Mrs. Henry Swedenborg, Rancho  
Gardens Nursery, Glendale, Calif.,  
which is located at the foot of the  
Griffith Park mountains, features a  
rustic ranch-type architecture done  
in redwood. Associated with Mr.  
Swedenborg in the business is Frank  
Douglas, who for many years was  
with Percy's Nursery, at Glendale.

## ROSES

### BUSH and CLIMBING

Our 1951-52 catalog will soon  
be ready. May we add your  
name to our mailing list?



**FINEST-QUALITY  
BARE-ROOT STOCK.**

SALESYARD: 14408 Nelson Ave., Puente  
Phone FL 624-90

**MONTEBELLO ROSE CO.**

401 N. 6th St. MONTEBELLO, CALIF.  
Phone UNION 1-1721

## SHERWOOD'S JUNIPERS

**JUNIPERUS HORIZONTALIS  
PLUMOSA (Andorra Juniper).**

One of the more recent introductions in  
creeping junipers. It grows close to the  
ground but the tips of the branches lift  
up to a height of about 18 inches.

Per 100 Per 1000

3 to 6 inches,  
once transplanted ..... \$12.00 \$96.00

**JUNIPERUS CHINENSIS SARGENTI  
(Sargent Juniper).**

This juniper has been well proven as it  
has been grown in American gardens for  
more than fifty years. It was first intro-  
duced into the Arnold Arboretum from  
Japan by Prof. Sargent in 1892.

3 to 6 inches,  
once transplanted ..... 12.00 96.00

**SHERWOOD NURSERY CO.**

EVERGREENS — Propagators & Growers  
Wholesale Only

141 S.E. 63rd Ave. PORTLAND 16, ORE.

## FOR 1951 SEASON

Fruit Trees  
Small Fruits  
Fruit Tree Seedlings  
Flowering Trees  
Shade Trees  
Shrubs  
Roses

and a general assortment of other  
nursery stock.

Ask us to put your name on our  
mailing list. (Use your letterhead.)

**RICH & SONS NURSERY**  
Hillsboro, Oregon

## SEEK AREA CONTROL OF ORIENTAL FRUIT FLY.

Now prevalent in Hawaii, the Oriental fruit fly offers a definite hazard to mainland agriculture, should it be accidentally introduced into west coast areas of the United States. So the United States Department of Agriculture is taking precautions to determine effective measures of control. A huge trapping program has already begun in California to insure prompt detection of the fly, while on the island of Lanai, the bureau of entomology and plant quarantine has begun a 3-month study of the Oriental fruit fly after eighteen months of preliminary research on a semicommercial scale.

Dr. Walter Carter, in charge of the research work, states that Lanai was chosen because it has rural villages planted with cultivated hosts which greatly resemble such areas in California; its limited wild host area can be treated completely with insecticides; it is isolated enough so that reinfestation from outside sources is not likely, and the company which owns and operates most of the island has given the necessary cooperation.

Investigations are under the direct supervision of Charles F. Henderson, U. S. D. A. entomologist from Gulfport, Miss. All treatments, which include use of insecticides, defoliation and host free sanitation, are approved as safe by the government. Cactus fruits, chinaberry fruits and other incidental hosts are being watched. The value of the program is being tested by comparing fly populations before and after treatment.

OPEN house was held in early March by the Valley Garden Supply, North Hollywood, Calif., of which Ed Arnesen is owner.

## HELP WANTED

Nursery superintendent, experienced in growing stock and operations incidental to getting such stock ready to sell including shearing, trimming, storing and order collection. Application should state age, experience, references and salary expected. Good habits would be an essential qualification; experience directing landscape planting crews would be a distinct plus.

MATHEWS NURSERY

1216 W. Ridge Rd. Gary, Ind.

HELP WANTED—Experienced man to take charge of growing perennials. Young to middle-aged family man preferred. Permanent position. Good house with pleasant surroundings provided. Write, giving age, family status, experience, salary expected and references. EISLER NURSERIES, Box 70, Butler, Pa.

AGENTS WANTED—To sell All-purpose Power Mower, Cuts grass, weeds, brush. Sensation. ROTACUT CO., FB, Excelsior Springs, Mo.

## WANT ADS

Help and Situation Wanted and For Sale advertisements.

Display: \$3.00 per inch, each insertion.

Lines: 25¢ line; minimum order \$2.00

## FOR SALE

Nursery at Rochester, N. Y., the flower city. One of the city's best known retail nurseries, roadside stand and landscaping business. A showplace and tremendous earner, located on main thoroughfare, plenty of off-street parking. Price includes all real estate: 7½ acres of growing young stock, all varieties in demand locally, valued at \$25,000.00; 2 cinder block warehouses; beautiful rustic roadside stand; 7-room room luxurious home on shore of property's miniature lake; all tools, equipment, trucks and tractor. Everything in prime condition. A going business at its best. Price \$90,000.00. Buyer with \$30,000.00 cash can pay balance out of earnings over 5 to 6-year period.

JOHN T. NOTHNAGLE, Inc.  
Realtors—Business Brokers  
130 E. Main St., Rochester, N. Y.  
or New York City Branch Office  
at 130 W. 42nd St.

## HELP WANTED

Experienced perennial grower wanted. Must know propagation and care of a complete line of perennial plants. This is an excellent position for the right man. Please do not answer unless you are qualified, we do not need amateurs. Write us full details, or for an appointment for a personal interview.

CARROLL GARDENS  
Westminster, Md.

## HELP WANTED

General manager for young but established nursery locally located in the Carolinas. Fully stocked and equipped for general landscaping. Must be over 30 years old and experienced. Address Box 799, care of American Nurseryman.

## HELP WANTED

Landscape foreman to take charge of general landscaping and planting. House available.

DE KALB NURSERIES, Inc.  
P. O. Box 67 Norristown, Pa.

## HELP WANTED

Landscape foreman for housing project and nursery operations. Unusual opening for aggressive man. Opportunity for part interest to right party. Permanent. Near Baltimore, Md. State age, experience, etc. Address Box 752, care of American Nurseryman.

HELP WANTED—On Long Island. Propagator, man capable of taking charge of 3 greenhouses totaling 9,000 square feet, also seedbeds and frames, instructing and handling men. Must understand grafting of rhododendrons, also other ornamental plants, grafts, seedlings or rooting. Must furnish references. BACATELE NURSERY, P. O. Huntington Station, L. I., N. Y.

## FOR SALE

Neilsen Nursery greenhouse department, Council Bluffs, Ia. One of the finest businesses in the state. Wholesale, retail pot plants, boxed vegetables, annuals and perennials sold to established businesses in Iowa, Missouri and Kansas, all within 200 miles of Council Bluffs, delivered by trucks. This is a remarkable business and must be seen to be appreciated. Books opened to interested party. Buildings consist of 3 greenhouses, 20 x 180; 20 x 81; 20 x 96; new boilers; 7 hot water heated beds with 500 like new hot-bed sash; storage cave, 14 x 30; lath house, 21 x 42; warehouse, new, 45 x 66; garage, 24 x 40, 2-story; office and salesroom with basement, 24 x 48, like new. This whole plant on about 2 acres of ground. More ground if needed. On paved highway 375, edge of Council Bluffs, lots of traffic. Plant has big inventory, will be sold down to handle. Possession can be given in June or before. We invite you to see this in full operation. Write or call. Terms can be arranged. Will take from \$30,000.00 to \$50,000.00 to handle.

ALFRED T. NEILSEN'S  
NURSERIES  
2807 South Ave.  
Council Bluffs, Ia.

## FOR SALE

Greenhouse, 13,400 sq. ft. of glass; 4 acres of land and 7-room house, located 20 miles from Pittsburgh, Pa. Doing excellent business. Death in family cause of sale. Write or phone J. B. Kelly, CHAS. R. WEITERSHAUSEN AGENCY 617 E. Ohio St. Pittsburgh 12, Pa. Phone: FA 1-1030

## FOR SALE

If you are interested in buying a good-going nursery business—one that is making money and will make plenty of money in years to come—this business has already been built for you. For information write us, or better yet, come and see me.

RIDGE MANOR NURSERIES  
E. J. Fields, Prop. Geneva, Ohio

## FOR SALE

Well established landscape and maintenance business, including small nursery in excellent location in expanding community on south shore of Long Island, N. Y. Fully equipped, including truck, Roto tiller, tools, land for growing stock and large barn. CARL FALKENBACH, 22 Bayside Pl., Amityville, N. Y.

## HELP WANTED

Experienced propagator desiring permanent employment. Prefer middle-aged man of proven ability for propagating general line of ornamentals. Give age, experience, reference and salary expected in first letter. Address Box 793, care of American Nurseryman.

# CLASSIFIED ADS

Rate: 25 cents per line, each insertion.

Minimum order, \$2.00

Instructions for the next issue must be received by Monday, May 14.

## AZALEAS

### AZALEAS.

Hinodegirl and other varieties, including Kaempferi and Glenn Dale Hybrids. Nice, bushy plants. Prices of Hinodegirl and most Kurumes, packing additional:

	Per 100
8 to 10 ins.	\$10.00
10 to 12 ins.	15.00
12 to 15 ins.	15.00

Add 10c per plant for burlap wrapping. Send for complete list of Azaleas, Broad-leaved Evergreens, Shrubs, Trees, etc.

TANKARD NURSERIES

Exmore, Virginia

### 100,000 AZALEAS.

Hinodegirl, Alice, Mary, Purple King, Hinomayo, Indica Alba, Kaempferi Flame, Amoena and others.

Transplanted rooted cuttings, ready now.

\$12.50 per 100; \$100.00 per 1000.

Packing and shipping extra.

DEKALB NURSERIES, INC.

Norristown, Pa.

### AZALEAS.

Hinodegirl, Coral Bells and Gable varieties. Per 100

15 to 21 ins. \$175.00

Add 20c per plant for B&B.

GLOVERS NURSERY Hugheville, Md.

## BERRY PLANTS

### STRAWBERRY PLANTS.

Hardy, northern-grown, state-inspected, No. 1 plants. Per 1000

Gem Everbearing \$10.00

Streamliner 16.00

Superfection 18.00

Arrowhead, one crop 10.00

### RED RASPBERRY PLANTS.

No. 1 sucker plants. Per 1000

Newburg \$30.00

New Thornless Raspberry 50.00

### All plants fresh-dug as ordered.

### McNEAL BERRY NURSERY

Hamilton, Mont.

STRAWBERRY PLANTS. Twice state-inspected. Premier, Catskill, \$11.00 per 1000. Everbearing varieties. Superfection, \$20.00; Streamliner, \$16.00; Mastodon and Gem, \$13.00 per 1000. Plants are fresh-dug. Spring delivery.

GATEWAY NURSERY, New Buffalo, Mich.

## BULBS and TUBERS

### SPECIAL OFFER OF GERMAN IRIS.

	Per 100	Per 1000
1000 Action Front	\$20.00	\$150.00
1500 Angelus	12.00	80.00
500 Blue Peter	10.00	80.00
250 California Gold	10.00	80.00
500 Captain Wells	40.00	200.00
2500 Copper Rose	40.00	150.00
500 Elmhurst	25.00	200.00
1000 Fair Elise	15.00	80.00
300 Garden Magic	20.00	150.00
2000 Golden Majesty	10.00	60.00
250 Golden Treasure	12.00	90.00
500 Great Lakes	20.00	150.00
1000 Melitta	12.00	80.00
5000 Nightfall	30.00	120.00
500 Pink Reflection	75.00	...
400 Old Parchment	20.00	150.00
1500 Redward	35.00	200.00
1500 Sheriffs	15.00	80.00
500 Sleepy Hollow	20.00	150.00
3000 Sunny Ruffles	30.00	120.00
1000 Worthington	50.00	200.00

### IRIS PUMILA, Spring-flowering.

2500 Keepsake 18.00 120.00

300 Sapphire 18.00 150.00

2000 Tamps 18.00 120.00

### 250 plants sold at 1000 rate.

### THE WAYSIDE GARDENS CO.

Mentor, Ohio

### STYER'S PEONIES.

Finest stock for cut flower planting. M. Jules Elite, Akashi-gata, Edulis Superba, Modeste Guerin. Generous divisions. Write for our wholesale list of garden varieties.

### STYER'S NURSERIES

Concordville, Pa.

### DAHLIA ROOTS.

We grow many acres of standard varieties. Write today for wholesale price list.

### PAYNE DAHLIA FARMS

Route 5 Kansas City 3, Kans.

### DOUBLE TIGER LILIES.

4 to 6 ins. \$10.00 per 100; \$90.00 per 1000.

THE EVERGREEN NURSERIES, Lowell, Ind.

## CHRYSANTHEMUMS

### HARDY CHRYSANTHEMUMS.

Strong field-grown divisions, state inspected. We have a large, select stock for immediate or later delivery.

	Per 10	Per 100
Alert, early deep purple	\$1.50	\$10.00
Algonquin, showy clear yellow	.75	4.00
Allegho, glowing salmon-pink	1.00	6.00
Bonfire, bronze-red pompon	.75	4.00
Brilliance, showy bright red	1.00	6.00
Candlelight, early double white	1.00	6.00
Carnival, large new burnt orange	1.50	10.00
Charles Nye, best all-purpose yellow	1.00	6.00
Chris Columbus, nice ivory-white	1.00	6.00
Early Worm, spready bright yellow	1.00	6.00
Ember, showy orange-bronze	.75	4.00
Eureka Giant, bright golden-orange	1.00	6.00
Glowing Coals, deep cherry-red	1.00	6.00
Gold Dollar, bright yellow pom.	1.25	8.00
Jackie, floriferous bright red	1.00	6.00
Jayeff, large, fluffy peach-pink	1.25	8.00
Judith Anderson, yellow button	1.25	8.00
Karen Frederickson, orange pom.	1.25	8.00
Meditation, two-toned bronze	1.25	8.00
Murmura, incurved mallow-purple	1.50	10.00
Orchid Helen, dbl. pink-orchid	1.25	8.00
Pink Pearl, rose-pink pompon	1.00	6.00
Pink Radiance, hardy soft rose	1.00	6.00
Polar Ice, double pure white	1.00	6.00
Pohatcong, early deep rose	.75	4.00
Ruby Pompon, crimson	.75	4.00
erect stems		
September Dawn, large lavender-pink	1.00	6.00
September Sunshine, deep yellow, early	1.00	6.00
Successor, two-toned pink dbl.	1.00	6.00
Tampico, U.S.D.A. tall bronze, late	1.00	6.00
White Wonder, tall ball pompon	1.25	8.00
Wren, tall yellow button, red centers	1.25	8.00
Yellow Avalanche, soft yellow	1.25	8.00
Zantha, canary-yellow pom.	1.00	6.00

LOW-GROWING and CUSHION TYPES.

Champion Cushion, bronze-red

Cochecho, bushy lavender-rose

Glacier, best early pure white

Golden Russet, new early gold pompon

Little Eskimo, busy white pom.

Major Cushion, best pink cushion

Nanook, cream and white cushion

New Red Cushion, gay bright red

Pomponette, nice bronzy-yellow

Powder Puff, very dwarf cream

Pygmy Gold, early yellow button

Salute, gay red-purple, early

September Bronze, hardy golden-bronze

September Cheer, bright cherry-red

Yellow Cushion Supreme, soft yellow

Youddath's Pride, bushy bronze pompon

Not less than 2 of each at the 100 rate.

### ENGLERTH GARDENS

4652 Division Ave., S.

Grand Rapids 3, Mich.

Fine Hardy Field-grown Mum Divisions

From Cool Mile-Hi Denver, Colo.

20 at 100 rate

Per 100

Hidatsa, low red cushion, fine

Leda, large heliotrope-pink, Eng.

Algonquin, butter-yellow, Cut fl.

Sonja, purple cushion, fine

Pohatcong, frosty lavender-pink

Dahlilum, wine-red, 18 ins. Aug.

Harbinger, bronze-yellow, red-rimmed petal

Waku, fine dbl. white, 22 ins. Aug.

Over 40 different varieties, same price. Send for descriptive perennial price list.

Cash, please.

Packing charged at cost.

BILL'S NURSERY

1057 Cook St. Denver 5, Colo.

### HARDY CHRYSANTHEMUMS.

Well rooted cuttings. Per 100

 Jayeff, huge 4-in. dbl. pink, blooms with a silver sheen; good clean foliage | 8.00 || Karl A. Reiche, very hardy Bengal-rose pompon | 8.00 |
| Maroonette, superhardy, strong upright grower, 2 ft.; lg. dbl. compact flowers of an intense maroon; foliage, clean deep green | 12.00 |

### PLANE VIEW NURSERY

Newport, R. I.

## CHRYSANTHEMUMS.

These are field-rooted divisions and will give utmost satisfaction for potting for spring resale or lining out.

### CUSHION TYPES.

	Per 100
*Bronze Cushion	\$4.00
Champion Cushion, red-bronze	5.00
Major Cushion, bright pink	5.00
*Pink Cushion	4.00
*Santa Claus, red cushion	4.00
*White Cushion	4.00
Yellow Supreme, large, flowers early	5.00

### FALLER CUT FLOWER TYPES.

	Per 100
*Acacia, single yellow, profuse	4.00
*Autumn Lights, new bronze, early	4.00
*Algonquin, double, bright yellow	4.00
*Clara Curtis, earliest pink Korean	4.00
*Border White, large-flowered, Eng.	4.00
*Dean Kay, early, pink	4.00
*Deanna, rose-pink	4.00
*Ember, glowing orange	4.00
*Hebe, early, pink Korean	4.00
*Irene, white pompon	4.00
*Jean Treadway, outstanding pink	4.00
*Little Bob, bronze pompon	4.00
*Mrs. Morgan, large chestnut	4.00
*Pygmy Gold, yellow pompon	4.00
*Ouray, bronze pompon	4.00
*Red Flame, outstanding pompon	4.00
*Red Kristina, large red daisy	4.00
*Reveller, India-red, Eng.	5.00
*Winnetka, large-flowered white	5.00
*Burgundy, new, good cutter	5.00

\*Field clumps available in these varieties only \$2.00 per 10; \$15.00 per 100. 25 of a variety at the 100 rate.

Minimum field divisions, 25 of a variety.

ELKHART NURSERY CO.

R. R. 1 Elkhart 2, Ind.

### HARDY "COLORFUL MUMS."

Listing new '51's and cream of newly introduced and choice well known hardies in cushions, spoons, English, pot, cut flower, garden varieties. Tested and merit proven.

Covers entire blooming season, Aug., Sept., Oct. and Nov. Prices every grower can afford. Rooted cuttings and banded pot plants. Hardies are booming! Order "Colorful Mums" today. Select perennial list included.

PRAIRIE SOUTHWEST FLORETUM

Fall River, Kan.

## EVERGREENS

ARBORVITAE, Per 25 100 1000

American, 4 to 6 ins. X. \$3.75 \$13.50

American, dark green, Eng. pot, cut flower, garden varieties. Tested and merit proven.

3 to 4 ins. X. 4.50 15.50

3 to 4 ins. X. 12.00 100.00

Elegantissima, rooted cuttings 8.00

Pyramidalis, rooted cuttings 8.00 75.00

4 to 6 ins. X. 4.50 15.50

6 to 8 ins. X. 6.25 20.00

Globoea, rooted cuttings 8.00 75.00

4 to 6 ins. X. 4.50 15.50

5 to 8 ins. X. 5.00 18.50

BOXWOOD.

Old English Dwarf, rooted cuttings 6.00 45.00

3 to 4 ins. X. 12.00 100.00

4 to 6 ins. X. 15.00 125.00

5 to 7 ins. X. 4.50 15.50 140.00

Sempervirens, 1-yr. T. 12.00 100.00

4 to 5 ins. X. 12.00

Korean, 1-yr. T. 12.00

4 to 5 ins. X. 12.00

BARBERRY, Julian

4 to 6 ins. X. 6.25 20.00

6 to 8 ins. X. 7.50 27.50

ILEX crenata (Jap. Holly), rooted cuttings 4.50 15.50 75.00

JUNIPERUS.

Andorra, rooted cuttings 8.00 75.00

4 to 6 ins. X. 4.50 15.50

4 to 8 ins. X. 6.25 18.50

Hetzl, rooted cuttings 8.00 75.00

Hibernica (Irish), rooted cuttings 8.00 75.00

4 to 6 ins. X. 4.50 15.50

Sabina (Savin), rooted cuttings 8.00 75.00

4 to 6 ins. X. 15.50

PINE, Mugho, 1-yr. T. 8.50

3 to 4 ins. X. 8.50

PIERIS japonica, rooted cuttings 7.50 25.00

6 to 8 ins. X. 7.50 25.00

### ESHAM'S NURSERIES

Frankford, Delaware

Per 100

Pfister Juniper, 2 1/4-in. \$18.00

Stricta Juniper, 2 1/4-in. 18.00

Irish Juniper, 1-yr., field-grown 12.00

Taxus, Spreading, cuttings 8.00

### CHARLES J. SANDERS

Monongahela, Pa.



## LINING-OUT LIST.

All stock on this list is in protected beds or under glass. No cold injury whatever. We offer the following potted liners for shipment in new Bird Neponset Paper Pots at the slight added cost as per prices quoted in the first column.

Potted liners priced in the second column will be packed by the ordinary method used by most nurseries without the added protection of paper shipping pots.

Bare-root liners and liners in Bird Vita-Bands are also priced in the second column.

The 1000 rate applies on all orders; therefore, please order in multiples of 25 or more.

In paper paper  
pots pots

Each per 1000

Biota aurea nana, Berckmans

4 to 6 ins. liners. . . . . \$0.16

2 1/2-in. pots. . . . . \$0.20

2 1/2-in. pots, extra-strong. . . . . \$0.21

Biota aurea nana globosa. . . . .

2 1/2-in. pots. . . . . .18

Biota Bonita. . . . .

2 1/2-in. pots, extra-strong. . . . . .17

Biota bakeri. . . . .

3 to 4 ins. liners. . . . . .10

4 to 6 ins. liners. . . . . .12

2 1/2-in. pots, extra-strong. . . . . .20

Biota excelsa. . . . .

3 to 4 ins. liners. . . . . .10

4 to 6 ins. liners. . . . . .12

2 1/2-in. pots, extra-strong. . . . . .18

Biota sibylli. . . . .

3 to 4 ins. liners. . . . . .10

4 to 6 ins. liners. . . . . .12

2 1/2-in. pots, extra-strong. . . . . .18

Cedrus deodara. . . . .

6 to 8 ins. liners. . . . . .19

2 1/2-in. pots. . . . . .23

1 1/2 x 2 1/2-in. Vita-Bands. . . . . .24

Note: Cedrus deodara is a scarce item.

Due to crop failure, no fresh seed will be available in 1951. Place your orders now while still available.

Chamaecyparis lawsoniana allumi.

Blue Lawson Cypress. . . . .

2 1/2-in. pots. . . . . .19

2 1/2-in. pots. . . . . .20

Cunninghamia lanceolata, blue.

2 1/2-in. pots. . . . . .25

Juniperus chinensis pfitzeriana

compacta. . . . . .27

Juniperus chinensis pfitzeriana

compacta. . . . . .10

4 to 6 ins. liners. . . . . .12

2 1/2-in. pots. . . . . .18

2 1/2-in. pots, extra-strong. . . . . .20

Juniperus chinensis pfitzeriana

nana. . . . . .25

2 1/2-in. pots. . . . . .24

Juniperus chinensis sylvestris.

2 1/2-in. pots. . . . . .22 1/2

2 1/2-in. pots. . . . . .25

Juniperus chinensis virdifolia,

often called Juniperus densa

glauca. . . . . .26

2 1/2-in. pots. . . . . .26

Juniperus communis columnaris

compacta and Juniperus

communis kiyonoi. . . . . .10

3 to 4 ins. liners. . . . . .12

4 to 6 ins. liners. . . . . .18

2 1/2-in. pots. . . . . .18

2 1/2-in. pots. . . . . .17

Juniperus excelsa stricta.

4 to 6 ins. liners, TT. . . . . .12

2 1/2-in. pots. . . . . .18

Juniperus glauca.

2 1/2-in. pots. . . . . .18

2 1/2-in. pots. . . . . .20

Juniperus japonica procumbens.

2 1/2-in. pots. . . . . .19

2 1/2-in. pots. . . . . .21

Taxus cuspidata.

4 to 6 ins. liners. . . . . .12

2 1/2-in. pots. . . . . .16

Taxus media andersoni.

Taxus media hicksii. . . . . .12

4 to 6 ins. liners. . . . . .16

2 1/2-in. pots. . . . . .18

Thuja occidentalis pyramidalis.

American Pyramidal Arborvitae.

4 to 6 ins. liners. . . . . .15

2 1/2-in. pots. . . . . .18

Berberis sargentiana.

1 1/2 x 2 1/2-in. Vita-Bands

(Ready now) . . . . . .15

Buxus sempervirens.

English Boxwood. . . . . .06

3 to 4 ins. liners. . . . . .07 1/2

4 to 6 ins. liners. . . . . .07 1/2

Camellia sasanqua Dawn.

2 1/2-in. pots. . . . . .24

2 1/2-in. pots. . . . . .25

Camellia sasanqua Maiden's

Blush. . . . . .16

2 1/2-in. pots. . . . . .15

2 1/2-in. pots. . . . . .18

Camellia sasanqua

Mine-No-Yuki. . . . . .24

2 1/2-in. pots. . . . . .26

Camellia sasanqua Setsugekka.

2 1/2-in. pots. . . . . .24

Elaeagnus fruiticans.

3 to 4 ins. liners. . . . . .12

4 to 6 ins. liners. . . . . .15

2 1/2-in. pots. . . . . .17

2 1/2-in. pots. . . . . .18

2 1/2-in. pots. . . . . .19

(Continued in next column.)

(Concluded from previous column.)

In paper paper  
pots pots

Without

Illidium anisatum. . . . . \$0.13

2 1/2-in. pots. . . . . .19

Ligustrum lucidum compactum.

2 x 2 1/2-in. Vita-Bands. . . . . .15

Nandina domestica.

2 1/2-in. pots. . . . . .09

2 1/2-in. pots. . . . . .11

2 x 2 1/2-in. Vita-Bands. . . . . .12

Photinia glabra.

2 1/2-in. pots. . . . . .21

Pyracantha bell.

2 x 2 1/2-in. Vita-Bands. . . . . .17

Viburnum tinus (Ready now).

3 to 4 ins. liners. . . . . .06

4 to 6 ins. liners. . . . . .08

Cornus florida.

6 to 8 ins. liners. . . . . .04

8 to 12 ins. liners. . . . . .07

Lonicera Flaming Beauty.

6 to 8 ins. liners. . . . . .15

8 to 12 ins. liners. . . . . .20

2 1/2-in. pots. . . . . .23

Magnolia soulangeana alba

superba and Magnolia

soulangeana. . . . . .35

3 1/2-in. pots. . . . . .40

4-in. pots. . . . . .60

Magnolia soulangeana nigra.

2 1/2-in. pots. . . . . .30

3-in. pots. . . . . .35

4-in. pots. . . . . .40

Magnolia liliflora.

3-in. pots. . . . . .30

4-in. pots. . . . . .35

Spiraea reevesiana flora-plena.

6 to 8 ins. liners. . . . . .10

8 to 12 ins. liners. . . . . .12

1 1/2 x 2 1/2-in. Vita-Bands. . . . . .15

Prices subject to change without notice.

T. C. OWEN & SON, Inc.

Columbia, Mississippi

## LINING-OUT STOCK.

Final Spring List.

This list includes several items on which

digging shows stock to be in excess of earlier

estimates.

Also a few special grades, as Colorado Blue

Spruce, X, 2 to 6 ins.; White Birch, 2-0, 4 to

10 ins.; Dwarf Mugho Pine, 2-2, 2 to 4 ins.

All stock is northern-grown in our own

nursery, of good quality and with good fiber

root systems.

Per 100 Per 1000

European Mountain Ash. . . . . \$10.00

2-0, 12 to 24 ins. . . . . 6.00

2-0, 6 to 12 ins. . . . . 4.00

White Birch, 2-0, 4 to 10 ins. . . . . 30.00

Colorado Blue Spruce.

X, 6 to 9 ins. . . . . 15.00

X, 2 to 6 ins. . . . . 6.00

2-0, 4 to 8 ins. . . . . 7.00

3-0, 2 to 4 ins. . . . . 4.00

American Arborvitae.

2-2, 6 to 9 ins. . . . . 9.00

2-2, 4 to 6 ins. . . . . 7.50

Dwarf Montana Mugho Pine.

2-2, 4 to 6 ins. . . . . 15.00

2-2, 2 to 4 ins. . . . . 8.00

3-0, 2 to 4 ins. . . . . 4.00

Ponderosa Pine, 2-0, 2 to 5 ins. . . . . 5.00

Black Hills Spruce.

XX, 6 to 9 ins. . . . . 20.00

Austrian Pine, 2-0, 1 to 4 ins. . . . . 4.50

Scotch Pine, 2-2, 6 to 12 ins. . . . . 10.00

Scotch Pine, 2-0, 3 to 5 ins. . . . .

\$4.50 per 100; \$25.00 per 1000; \$120.00 per

5000; \$250.00 per 10,000.

Scotch Pine, 2-0, 1 to 3 ins.

\$3.00 per 100; \$18.00 per 1000; \$80.00 per 5000;

\$150.00 per 10,000.

Approximately 50,000 Scotch Pine adigs.,

total available in both sizes.

Terms: Cash with order, please, for Spring

shipment, 25 at 100 rate, 250 at 1000 rate.

Minimum quantities: Not less than 50 adigs.

and not less than 10 trans. Minimum order:

Not less than \$5.00.

Shipping: Express collect, or, if preferred,

parcel post.

Packing: Prices include packing.

MATTHEWS NURSERY

Phones: 123 or 732 Harbor Springs, Mich.

## LINING-OUT STOCK.

Per 100 Per 1000

Mugho Pine (Dwarf), 2-0.

2 to 4 ins. . . . . \$ 3.00

Mugho Pine (Dwarf), 3-0.

2 to 6 ins. . . . . 5.00

Mugho Pine (Dwarf), 2-4.

2 to 4 ins. . . . . 5.00

Table Mountain Pine, 2-0.

3 to 6 ins. . . . . 2.50

Table Mountain Pine, 1-1.

3 to 6 ins. . . . . 4.00

Norway Spruce, 3-0, 2 to 6 ins. . . . . 3.50

Norway Spruce, 2-1, 3 to 6 ins. . . . . 5.50

Colorado Blue Spruce, 2-1.

2 to 4 ins. . . . . 4.50

White Spruce, 2-0, 3 to 6 ins. . . . . 3.00

Black Hills Spruce, 3-0.

2 to 4 ins. . . . . 3.00

Black Hills Spruce, 3-1.

2 to 6 ins. . . . . 5.00

Black Hills Spruce, 2-2.

3 to 6 ins. . . . . 6.00

Black Spruce, 2-3, 8 to 18 ins. . . . . 12.00

For complete list write to

JOHN G. ZELENKA

Rt. 3, Box 293 Grand Haven, Mich.

## DORMANT LINING-OUT STOCK LIST.

JUNIPERUS CHINENSIS

PFTZERIANA. Per each in lots of

10 100 1000

Pftzer Juniper.

15 to 18 ins. TTT. . . . . \$0.85

12 to 18 ins. TTT. . . . . .55

9 to 12 ins. TTT. . . . . .50

9 to 9 ins. TTT. . . . . .40

JUNIPERUS COMMUNIS

DEPRESSA PLUMOSA.

Andorra Juniper.

12 to 18 ins. TTT. . . . . .60

9 to 12 ins. TTT. . . . . .50

JUNIPERUS EXCELSA STRICTA.

Spiny Greek Juniper.

## EVERGREENS—Continued

EVERGREEN LINERS and CUTTINGS. POT-GROWN EVERGREEN LINERS.		
Each—Per 100	Per 1000	
<i>Biota aurea nana</i> , greenhouse-grown, ready May 1	\$0.20	\$0.18
<i>Juniperus virginiana burkii</i>		
1-yr., 5 to 6 ins., crown root	.27	.25
<i>Juniperus chinensis pfitzeriana</i>		
1-yr., 5 to 6 ins.	.20	.18
<i>Juniperus hetzi glauca</i>		
1-yr., 5 to 6 ins.	.20	.18
<i>Arborvitae, Pyramid.</i>		
1-yr., 5 to 8 ins.	.20	.18
2-yr., 8 to 10 ins.	.27	.24
<i>Taxus media hicksii</i>		
1-yr. beds, 5 to 6 ins.	.15	.14
HEAVY ROOTED CUTTINGS.		
From flats, rooted outside in lath house.		
Each—Per 100	Per 1000	
<i>Juniperus communis hibernica</i>	\$0.03	\$0.07
<i>Juniperus communis ashfordii</i>	.08	.07
<i>Arborvitae, American Dark Green</i>		
Ready June 1	.09	.08
<i>Arborvitae, Pyramid.</i>		
Ready June 1	.09	.08
<i>Arborvitae, Globe Woodward.</i>		
Ready June 1	.09	.08
<i>Taxus media No. 8, spreading</i>	.12	.10
<i>Euonymus patens</i>	.07	.06
<i>Deutzia gracilis</i>	.12	.10

200 plants at 1000 rate.  
MIAMI NURSERY CO.  
Tipp City, Ohio  
Member of American Association of Nurserymen and Ohio Nurserymen's Association.

## JUNIPER GRAFTS.

Canerti, Glauca, Burkii, Hetzi and Pfitzeriana on Virginiana understock. Price, \$40.00 per 100, or \$37.50 per 100 at the 1000 rate. 250 take the 1000 rate.  
Terms: All cash with order earns free packing, or one-fourth cash and balance before shipping date, plus packing charges at cost.

We invite comparison with grafts of any other company. Remember, when better grafts are made, Crume will make them. We are never able to supply our full demand. Be wise and early, for the early bird catches the worm.

T. C. CRUME NURSERY & LDSC. CO.  
Highway 42 Florence, Ky.

## FIELD-GROWN EVERGREEN LINERS.

One and two-year plants, well rooted and well furnished with plenty of tops.

Each Per 100	Per 1000
Greek Juniper, 1-yr. plants, 6 to 12 ins.	\$0.12% \$0.10
Irish Juniper, 1-yr. plants, 8 to 15 ins.	.12% .10
Irish Juniper, 2-yr. plants, 8 to 24 ins.	.17% .15

300 or more at 1000 rate.  
Stock will be well packed and guaranteed to reach you in good condition. No packing charge. Cash with order, please.

NAUGHER NURSERY  
Chase, Ala.

## ROOTED CUTTINGS.

	Per 100
<i>Juniperus glauca hetzi</i>	
Cut 8 to 12 ins.	\$10.00
Cut 12 to 18 ins.	20.00
<i>Juniperus Andorra</i> , cut 6 to 8 ins.	8.00
<i>Taxus hicksii</i> , cut 8 to 12 ins.	10.00
Andersoni, cut 6 to 8 ins.	8.00
Cuspidata, cut 6 to 8 ins.	8.00
Cuspidata, capitata (leader cuttings only), cut 8 to 12 ins.	12.00
Springs shipment. Cash with order free packing. Express charges prepaid. Order now.	

EDWARDS' EVERGREEN NURSERIES,  
West Lafayette, Ohio

Each	
Pfitzer Juniper, from 2 1/4-in. pots	\$0.18
From 2 1/4-in. pots	.20
Savin Juniper, from 2 1/4-in. pots	.18
Andorra Juniper, from 3-in. pots	.25
Pyracantha lalandi, from 2 1/4-in. pots	.18
From 4-in. pots	.40
<i>Euonymus patens</i> , from 2-in. pots	.10
From 2 1/4-in. pots	.15
Rooted cuttings	.06

This stock is cool-rooted and cool-grown. Prices are for any quantity. F.O.B. Kansas City, Mo. Cash, please.

GLASSCOCK BROS.  
6119 Agnes Kansas City 4, Mo.

Each	
10,000 Pfitzer and Hetzi Junipers, 15 to 24 ins., light	\$2.75
15 to 24 ins., heavy	3.25
24 to 30 ins.	4.25
30 to 36 ins.	4.75
<i>Euonymus patens</i> , heavy, B&B, 18 to 24 ins.	2.25
24 to 30 ins.	2.50

BRUNING'S NURSERIES  
Higginville, Mo.

## LINING-OUT STOCK.

Each	
4000 Boxwood, Sempervirens, 4 to 6 ins.	\$0.15
3000 Boxwood, Sempervirens, 6 ins.	.25
2000 Ilex rotundifolia, 4 to 6 ins.	.20
2000 Ilex convexa, 4 to 6 ins.	.20
5000 Juniper, Pfitzer, 5 to 8 ins.	.25
2000 Hemlock, 8 to 10 ins.	.30

NICK'S NURSERY  
Anchorage, Ky.

## EVERGREEN CUTTINGS.

Rooted	Each per 100	1000
<i>Taxus cuspidata</i> , 4 to 10 ins.	\$0.10	\$0.09
<i>Taxus hicksii</i> , 6 to 10 ins.	.10	.09
1-yr. Bed		
<i>Taxus cuspidata</i> , 6 to 10 ins.	.18	.15
<i>Taxus hicksii</i> , 6 to 10 ins.	.18	.15
Plant Bands		
<i>Taxus cuspidata</i> , 6 to 10 ins.	.18	.15
<i>Taxus hicksii</i> , 6 to 10 ins.	.18	.15

DRAKE'S NURSERIES  
G-4342 Branch Rd. Flint, Mich.

## LINING-OUT STOCK.

Per 100	Per 1000
Rooted Cuttings	\$10.00
<i>Euonymus coloratus</i>	10.00 \$ 80.00
<i>Euonymus carrierei</i>	10.00 80.00
<i>Euonymus radicans</i>	8.00 60.00
Common Snowball, 1 1/2-in. pots	12.00 100.00

Cash, please. No packing charges.  
PRITCHARD NURSERIES  
R. 4 Ottawa, Kansas

## THUJA SEEDLINGS.

Per 100	Per 1000
<i>Thuja orientalis tatarica</i>	
2-yr., 6 to 9 ins.	\$3.00 \$25.00

This *Tatarica*, mostly *Pyramidalis* form, is especially nice. The many variations make good stock. Has withstood 15 degrees below zero temperature.

The HARRIS GARDENS  
Enterprise, Kan.

## EVERGREEN PLANT MATERIAL.

ADVANCED LINERS in Azalea, Cornus, Cotoneaster, Ilex, Juniperus, Kalmia, Leucothoe, Pieris, Rhododendron, Taxus, Thuja, Tsuga, Viburnum.

Finished Trees in Colorado Blue Spruce.

All Certified for Western Shipment.

Write for Wholesale Price List.

H. W. WEBER EVERGREEN NURSERY  
16 Summer St. Weston 33, Mass.

Write for our Spring Trade List of Lining-out Stock of 1-yr. transplants and pot grafts of Rhododendron, named hybrids and Rhododendron hardy hybrid seedlings. Also strong bench-grown Azaleas.

LEVICK NURSERY CO.  
R.F.D. 3 Bridgeton, N. J.

Surplus WHITE SPRUCE Seedlings.

4-yr., 6 to 10 ins., \$25.00 per 1000.

Only 5,000 left at this price.

Lombardy Poplars, 2 to 3 ft., \$4.50 per 100.

FORT ATKINSON NURSERY  
Fort Atkinson, Iowa

## UNROOTED CUTTINGS OF PFITZER JUNIPER.

6 to 10 ins. long, not trimmed.

Moss packed; express only \$10.00 per 1000.

Cash with order.

KRONE'S FLOWER SHOP  
4221 Grand Ave. Fort Smith, Ark.

We imported from Holland in March Rhododendron, Hybrids, grafted named varieties, 1-year field-grown, 75c each. 3-year, with buds, 12 to 18 ins., \$2.00 each.

VERKADE'S NURSERIES  
Wayne, N. J.

## EUONYMUS RADICANS VEGETUS.

Strong rooted cuttings.

Per 100 Per 1000

\$8.00 \$75.00

PLANE VIEW NURSERY  
Newport, R. I.

## JUNIPERUS HETZI GLAUCA.

Each per 100

1-yr., 4 to 6 ins.

2-yr., 6 to 9 ins.

BALCOM NURSERY  
Kokomo, Ind.

## TAXUS CUSPIDATA.

18 to 24 ins., \$35.00 per 10; \$300.00 per 100, at nursery.

RINGDAHL'S NURSERY  
Mohawk Acres Rome, N. Y.

Douglas and Concolor Firs, White Spruces.

Pines and Yews. You dig

The EVERGREEN NURSERIES  
Lowell, Ind.

## CEDAR SEEDLINGS.

Bed run

Graded, 4 to 8 ins.

KLEIN NURSERY  
Enid, Okla.

Surplus Stock

can be easily and quickly turned into

Cash

by listing it in the

American Nurseryman Classified Ads.

## FRUIT and NUT TREES

PECANS.

Stuart, Mahan, Success, Money-maker,

Moore, Burkett, Schley, Western Schley and

other popular and profitable catalog items.

Thomas Elac and Willson Woner Eng-

lish Walnuts, Eureka and Tanenashi Persim-

mons. Write for advance trade list.

ARP NURSERY CO.  
Box 867-C Tyler, Texas

## GROUND COVERS

PACHYSANDRA TERMINALIS.

Strong, 1-yr. field-grown, \$65.00 per 1000.

HILLCREST GREENHOUSES, Franklin, Pa.

## GRAPEVINES

## NURSERY STOCK.

GRAPEVINES.			
<i>Fredonia</i> , black;			
Niagara, white, Each	10	100	1000
2-yr., No. 1	\$0.25	\$1.75	\$12.00
1-yr., No. 1	.20	1.50	9.00
Agawam, red;			
Catawba, mahogany;			
Worden, black;			
Moore's Diamond, white;			
Moore's Early, black.			
2-yr., No. 1	.30	2.00	15.00
1-yr., No. 1	.25	1.75	12.00
Delaware, red;			
Portland, white.			
2-yr., No. 1	.30	2.25	18.00
1-yr., No. 1	.25	2.00	15.00

See our half-page advertisement on Strawberry Plants on Page 14.

No charge for packing when cash accom-

panies order.

BUNTINGS' NURSERIES, Inc.  
Box 3 Selbyville, Dela.

## HARDY PLANTS

## Top-quality Field-grown Perennials.

	Dox.	100	1000
<i>Aethionema grandiflorum</i>	\$4.75	\$20.00	\$160.00
<i>Alyssum saxatile citrinum</i>	4.25	18.00	150.00
<i>Alyssum saxatile compactum</i>	4.00	15.00	125.00
<i>Anemone japonica alba</i>	5.00	22.50	180.00
<i>Anemone pulsatilla</i>	4.75	20.00	160.00
<i>Armeria Glory of Holland</i>			
Hyb.	4.75	20.00	150.00
<i>Artemisia Silver King</i>	4.25	15.00	150.00
<i>Aster Beechwood</i>			
Challenger	4.25	18.00	150.00
<i>Aster Gay Border Blue</i>	4.25	18.00	150.00
<i>Aster Mt. Everest</i>	4.25	18.00	150.00
<i>Astragalus cyren</i>	4.75	20.00	160.00
<i>Campanula carpatica</i>	4.25	18.00	150.00
<i>Campanula carpatica alba</i>	4.25	18.00	150.00
<i>Campanula carpatica Blue Carpet</i>	5.00	22.50	180.00
<i>Carnations, mixed shades</i>	3.75	12.00	100.00
<i>Delphinium Pacific</i>			
light blue	5.75	30.00	240.00
<i>Delphinium Pacific</i>			
dark blue	5.75	30.00	240.00
<i>Delphinium Pacific</i>			
pure white	5.75	30.00	240.00
<i>Delphinium Belladonna</i>			
2-yr.	4.75	20.00	180.00
<i>Delphinium Belladonna</i>			
2-yr.	4.75	20.00	180.00
<i>Delphinium Clivedon</i>			
Beauty	4.75	20.00	180.00
<i>Dianthus latifolius</i>			
Beatrice	4.25	18.00	150.00
<i>Dianthus lat. Silver Mine</i>	4.25	18.00	150.00
<i>Dianthus Old Spice</i>			
Pat. No. 499	5.00	22.50	180.00
<i>Dicentra eximia</i>	4.75	20.00	160.00
<i>Dicentra spectabilis</i>	6.00	35.00	280.00
<i>Eryngium amethystinum</i>	5.00	22.50	180.00
<i>Euphorbia polychroma</i>	4.75	20.00	160.00
<i>Funkia glauca</i>	4.25	18.00	150.00
<i>Funkia subcordata</i>	5.50	25.00	200.00
<i>Gaillardia Giant English</i>			
Hyb.	4.00	15.00	125.00
<i>Gaillardia Mr. Sherbrook</i>	5.50	25.00	200.00
<i>Gaillardia Ruby</i>	5.50	25.00	200.00
<i>Geum Princess Juliana</i>	5.50	25.00	200.00
<i>Helenium Chipperfield</i>			
Orange	5.50	25.00	200.00
<i>Helenium Moerheim</i>			
Beauty	5.00	22.50	180.00
<i>Helenium Riverton</i>			
Beauty	4.75	20.00	160.00
<i>Heuchera sanguinea</i>	4.75	20.00	160.00
<i>Liatris pycnostachya</i>	4.00	15.00	125.00
<i>Liatris scariosa Sept.</i>			
Glory	4.75	20.00	160.00
<i>Lychnis viscaria</i>	4.25	18.00	150.00
<i>Lythrum superbum The</i>			
Beacon	4.25	18.00	150.00
<i>Lythrum superbum</i>			
Dropmore Purple	5.00	22.50	180.00
<i>Matricaria Silver Ball</i>	4.25	18.00	150.00
<i>Nepeta musini</i>	4.75	20.00	160.00
<i>Oenothera Illumination</i>	5.00	22.50	180.00
<i>Pentstemon Garnet</i>	5.00	22.50	180.00
<i>Platycodon grandiflorum</i>	4.00	15.00	125.00
<i>Platycodon grand. album</i>	4.00	15.00	125.00
<i>Rudbeckia White Lustre</i>	5.75	30.00	240.00
<i>Salvia pitcheri</i>	5.00	22.50	180.00
<i>Scabiosa caucasica alba</i>	4.75	20.00	160.00
<i>Scabiosa caucasica</i>			
Miss Willmott	5.50	25.00	200.00
<i>Sedum spurius Dragon's</i>			
Blood	4.75	20.00	160.00
<i>Thermopsis caroliniana</i>	5.00	22.50	180.00
<i>Thymus Border Gem</i>	4.75	20.00	160.00
<i>Veronica spicata</i>	4.00	15.00	125.00
<i>Veronica spicata rubra</i>	5.00	22.50	180.00
<i>Viola odorata Royal Robe</i>	4.75	20.00	160.00
<i>Herb-Tarragon Epicure</i>	4.75	20.00	160.00

250 or more of one variety at 1000 rate.

Please write for prices of varieties in which you are interested and which are not listed.

THE WAYSIDE GARDENS CO.  
Mentor, Ohio

## LIATRIS PYCNOSTACHYA.

Large field divisions, \$4.00 per 100, \$35.00 per 1000. All orders shipped promptly.

REINHOLD'S FLOWERS Flat Rock, Mich.

Pansies, perennials and rock plants in wide variety. Send for catalog.

PITZNER'S PANSY FARM  
Bristol, Pa.

## HARDY PLANTS.

This is our list of untransplanted plants available for immediate shipment. They are grown from seeds sown in June, 1950, and are not small seedlings, but are good sturdy plants. The growing season has been ideal the past year, and our crop of perennials is strong and well rooted. Our plants are packed to reach you in good condition.

Price per 50 and 25 of one variety at the 100 rate. 5 per cent discount in lots of 250 or more of one variety or color.

	Per 100
Alyssum Saxatile (Basket of Gold).....	3.50
Aquilegia Crimson Star.....	4.50
Aquilegia, long-spurred blue.....	3.50
Aquilegia longissima, yellow.....	6.50
Aquilegia Mrs. Scott Elliott, mixed.....	3.50
Aquilegia Rose Queen.....	2.50
Aquilegia Silver Queen.....	3.50
Arabis alpina (White Rock Cress).....	3.50
Artemisia Silver King.....	3.50
Aster Harrington's Pink.....	18.00
Aubrieta Monarch, mixed.....	4.50
Carnation King of the Blacks, maroon.....	4.00
Carnation Golden Sun, yellow.....	3.50
Carnation, pink, clear color.....	3.50
Carnation, red, very profuse.....	3.50
Carnation, white, pure white.....	4.00
Carnation, mixed, wide range.....	2.50
Coreopsis Double Sunburst (New Gold).....	3.00
Delphinium—See elsewhere in this issue.....	
Dianthus Plumarius, double, mixed.....	3.00
Dianthus Plumarius, Highland Queen.....	
rose.....	2.50
Dianthus Plumarius, Spring Beauty, mixed.....	3.00
Dianthus Latifolius, dark red.....	3.50
Dianthus Barbatius Midget Mixed, dwarf.....	3.50
Dianthus Barbatius Newport Pink.....	3.50
Dianthus Barbatius Scarlet Beauty.....	3.50
Dianthus Barbatius Vaughan's Mixed.....	3.50
Digitalis Dazzler Shirley, mixed.....	2.00
Gallardia Bains, cardinal-red.....	3.50
Gallardia Dazzler, yellow.....	3.50
Gallardia Goblin, dwarf.....	3.50
Gallardia Portia, mixed.....	3.50
Gypsophila paniculata, grafting size.....	6.00
Gypsophila paniculata, liners.....	3.00
Gypsophila paniculata, ungraded.....	4.00
Gypsophila Snow White, double.....	4.00
Helianthemum (Sun Rose), mixed.....	3.00
Helianthus (Hardy Zinnia), yellow.....	3.00
Iberis Gibraltarica, lavender.....	3.50
Iberis Jucunda, pink.....	2.00
Iberis Sempervirens, white.....	5.00
Lily of the Valley, waxen-white.....	1.50
Lilium tenuifolium (Coral Lily).....	3.50
Lilium Perenne (Blue Flax).....	3.00
Lobelia cardinalis, cardinal-red.....	3.50
Lycynis Chalcedonica, scarlet.....	2.00
Matricaria Ball's Double White.....	3.00
Matricaria Ball's Double Golden.....	4.00
Myosotis (Forget-me-not), blue.....	4.00
Phlox—See elsewhere in this issue.....	
Pyrethrum, crimson (Painted Daisy).....	4.50
Pyrethrum, rose and pink (Painted Daisy).....	4.50
Platyodon, early giant blue.....	3.50
Rudbeckia Purpurea, reddish-purple.....	3.50
Saponaria, rose-pink.....	3.50
Shasta Daisy, Alaska, large white.....	3.00
Shasta Daisy, Diener's Double White.....	4.00
Statice Latifolia, lavender.....	3.00
Stokesia Cyanea, blue.....	4.00
Viola Jersey Gem, cardinal-red.....	3.50
Viola Ark. Ruby, rich ruby-red.....	3.50
Viola Chantrelle, apricot.....	3.50
Viola Waller Franklin, best mixture.....	3.50
Pansy Maple Leaf, large blooms, mixed.....	2.50
Violet Royal Robe, blue.....	18.00

Send for Copy of Our Free Catalog.

RICHARDS GARDENS  
"Old Homestead Brand"

BOX 23 Plainwell, Mich.

## HARDY PERENNIALS.

Field plants unless otherwise noted.

	Per 100
Aster Niobe, dwf. white, runners.....	5.00
Aster Victor, dwf. blue, runners.....	5.00
Aster Beechwood Chail, red runners.....	5.00
Delphinium, Pacific Hybrids.....	15.00
Funkia lancifolia.....	15.00
Gypsophila paniculata.....	10.00
Heucherella Hyperion.....	18.00
Heucherella Mikado.....	18.00
Phlox subulata, red.....	15.00
Primula veris collosa.....	18.00
Veronica long, subsessilis.....	18.00
Viola Royal Robe.....	15.00

25 at the 100 rate. C.O.D. remit one third.

ELKHART NURSERY CO.

R. R. 1 Elkhart 2, Ind.

## HARDY ASTERS.

Rooted cuttings.

	Per 100
Beechwood Challenger, red.....	8.00
Harrington's Pink.....	8.00
Mount Everest, white.....	8.00
Violetta.....	8.00
Plenty, very large silvery-blue, yellow center.....	9.00
Frikarti (Wonder of Staefa), large lavender-blue.....	10.00

PLANE VIEW NURSERY  
Newport, R. I.

PERENNIALS, 2 1/2-in. pots, heavy, greenhouse-grown. Hardened in coldframes. Pacific Hybrid Delphiniums in main varieties. Marconi Shasta Daisy, Robinson's Pyrethrum. Radiant Red Geraniums for bedding. All \$10.00 per 100.

RIEMENSNIJDER'S GARDEN  
Sandwich, Ill.

## DELPHINIUM.

We have a good supply of our usual extra-fine untransplanted Delphinium ready for immediate shipment. As our past growing season has been ideal, the stands are perfect and the plants are well rooted. These are some of the nicest plants we have ever grown, and they will be packed by our famous packing system.

Price per 50 and 25 of one variety at the 100 rate. 5 per cent discount in lots of 250 or more of one variety or color.

We have 10,000 Sir Galahad double Delphinium, white with a white eye, grown from seeds sown in August, 1949.

The following is our list of one-year untransplanted plants. They are unusually fine Delphinium with good roots. They are grown from seeds sown in June, 1950.

	Per 100
Belladonna, light blue.....	\$2.50
Blue Bird, medium blue, white bee.....	7.00
Chinese, medium blue.....	3.00
Lamarine, dark blue.....	3.50
Blackmore & Langdon, mixed.....	2.50
Wrexham, mixed.....	4.00

VETTERLE & REINELT PACIFIC  
HYBRIDS, by color.

	Per 100
Dark Blue.....	6.00
Lavender Parol.....	6.00
Light Blue.....	6.00
Mixed.....	6.00
Violet.....	6.00
White.....	6.00

VETTERLE & REINELT PACIFIC

HYBRIDS, mixed varieties.

	Per 100
Black Knight, violet, brown bee.....	7.00
Blue Bird, medium blue, white bee.....	7.00
Blue Jay, dark blue, brown bee.....	7.00
Camellard, lavender, white bee.....	7.00
Galahad, white, white bee.....	7.00
Guinevere, lavender, white bee.....	7.00
King Arthur, violet, white bee.....	7.00
Percival, white, brown bee.....	7.00
Round Table, mixed.....	7.00
Summer Skies, light blue, white bee.....	7.00

Send for a Copy of Our Free Catalog.

RICHARDS GARDENS  
"Old Homestead Brand"

BOX 33 Plainwell, Mich.

## HARDY PERENNIALS.

	Per 100
Anthemium Moonlight, 1-yr.....	\$15.00
divisions.....	8.00
Aster Mt. Everest, white, 1-yr.....	15.00
runners.....	6.00
Aster Sunset Pink, lavender-pink, 1-yr.....	15.00
runners.....	6.00
Phlox Mary Louise, pure white, 1-yr.....	15.00
Phlox E. I. Farrington, salmon-pink, 1-yr.....	15.00
Lythrum Morden's Pink, heavy liners.....	8.00
Polemonium Blue Pearl, 1-yr.....	18.00
divisions.....	8.00
Sedum alzoom, 1-yr.....	18.00
divisions.....	8.00

PLANE VIEW NURSERY  
Newport, R. I.

Strong, 1-yr. field-grown plants.  
(May, 1950, planting)

	100	1000
Aquilegia, Dobbie's Imp. Hybrids, mixed.....	\$3.50	\$30.00
Aquilegia, Mrs. Scott Elliott.....	3.50	30.00
Delphinium Belladonna, light blue.....	3.00	27.00
Delphinium Bellamoseum, dark blue.....	3.00	27.00
Oriental Poppy.....	3.50	30.00
Pyrethrum, Robinson's Hybrids.....	5.00	47.00
Rudbeckia purpurea, 2-yr.....	3.00	25.00
Russell's Lupine.....	5.00	47.00
Tritoma Plitzner.....	4.00	37.00

NOVOTNY GARDENS, Osage, Iowa

## PERENNIALS.

Transplanted August, 1950. No seedlings.  
25 at 100 rate.

	Per 100
Aquilegia Scott Elliott's Hybrid.....	4.00
Carnation Grenadin, red and pink, mixed.....	4.00
Heuchera, red.....	8.00
Pyrethrum Robinson's Hybrid.....	5.00
Robinson's Hyb., 2-year, field-grown.....	12.00
Robinson's Crimson.....	5.00
Pyrethrum, from best double seed.....	6.00
Shasta Daisy Diener's Giant Double.....	5.00
Shasta Daisy Marconi.....	5.00
Daisy Mt. Shasta, transplanted divisions.....	7.00
Hardy Aster Blue Gown, field divisions.....	5.00
Minimum order, \$3.00.	

FLORALANE NURSERY, So. Haven, Mich.

## PINK SASHET.

Introducing a new Old-Fashion Pink. Large (2-inch) single, pink flowers with maroon center. Fragrant, hardy, with good foliage. Excellent for cutting. 10-inch stems.

Strong rooted cuttings..... \$4.00 100 \$35.00

PLANE VIEW NURSERY, Newport, R. I.

	Per 100	Per 1000
1-yr. sdigs., 4 to 6 ins.....	\$5.00	\$40.00
1-yr. sdigs., 6 to 8 ins.....	6.00	50.00

PLANE VIEW NURSERY  
Newport, R. I.

## SEEDS OF HARDY PERENNIALS.

700 varieties and species.  
Offered in our special wholesale price list of perennial seeds, plants sent on request.

REX. D. PEARCE, Dept. N, Moorestown, N. J.

## LYTHRUM MORDEN'S PINK.

Transplants from field beds.

Spring shipment.

	Per 100	Per 1000
Aug., 1950, transplants.....	\$ 8.00	\$75.00
July, 1950, transplants.....	9.00	85.00
June, 1950, transplants.....	10.00	95.00

Send for trade list on perennials.

PLANE VIEW NURSERY

Newport, R. I.

## PERENNIALS.

New and Standard Kinds.

A most modern and complete selection.

New Wholesale List now ready.

Send for your Free Copy Now.

CARROLL GARDENS

Box 15 Westminster, Md.

America's Best Source

for Hardy Plants is

THE WAYSIDE GARDENS

Mentor, Ohio

Write for Trade List.

HARDY FERNS, \$7.00 per 100. Ostrich, Clayton, Lady and Maidenhair. STRAND NURSERY CO., Taylors Falls, Minn.

Don't Be Late!

Mail advertising copy to reach

the American Nurseryman

Monday, two weeks before date of issue.

## IVIES

IVIES—Hardy English, both large and small-leaved; strong 2-in., \$3.00 per 100, \$75.00 per 1000; rooted cuttings, \$2.50 per 100, \$22.50 per 1000. Hahn's, 2-in., 8c. Baltica, 2-in., 10c.

JACOB SCHULZ

831 Cherokee Rd., Louisville 4, Ky.

## PHLOX

## HARDY PHLOX.

We have the following list of No. 1 Phlox grown from rooted cuttings planted last May. These are strong, well rooted plants and are now ready to be shipped.

Price per 50 and 25 of one variety at the 100 rate. 5 per cent discount in lots of 250 or more of one variety.

Charles Curtis, brilliant cherry-red.

Chieftain, rich intense crimson.

Daily Sketch, light pink with carmine eye.

Leo Schlageter, bright red.

Mary Louise, pure white.

100 of one variety, \$14.00.

10 of one variety, \$1.75.

Prime Minister, pure white with red center.

Thor, deep salmon-pink with scarlet overtone.

100 of one variety, \$12.00.

10 of one variety, \$1.50.

We have the following list of No. 2 Phlox, grown from rooted cuttings planted last May. These are nice plants, except they are somewhat smaller than the regular size. They will bloom this year.

Africa, deep carmine-red with darker eye.

Annie Laurie, salmon-red.

Border Queen, deep watermelon-pink.

Caroline Vandenberg, nearest to blue.

Daily Sketch, light pink, carmine eye.

Leo Schlageter, bright red.

Mary Louise, pure white.

Mordenrood, striking red.

Prime Minister, pinkish-white, red center.

Salmon Glow, deep salmon.

Starlight, orchid, white eye.

Thor, deep salmon pink with scarlet overtone.

100 of one variety, \$8.00.

10 of one variety, \$1.00.

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RICHARDS GARDENS

"OLD HOMESTEAD BRAND"

BOX 53 Plainwell, Mich.

## PHLOX LINERS.

We have the following list of Phloxes in well established crown and root cuttings; can ship now.

Annie Laurie, new salmon-red.

Border Queen, deep watermelon-pink.

Charles Curtis, brilliant cherry-red.

Daily Sketch, light pink with carmine eye.

Leo Schlageter, bright red.

Mary Louise, pure white.

Prime Minister, pinkish-white, red center.

Roy Blue, rose with a bluish tint.

100 of one variety, \$4.50; 50 of one variety, \$2.25; 25 of one variety, \$1.15.

5 per cent discount in lots of 250 or more of one variety.

RICHARDS GARDENS

"OLD HOMESTEAD BRAND"

BOX 43 Plainwell, Mich.

## PHLOX SUBULATA.

Our Moss Phlox are wonderful this year. The following prices are for undivided clumps.

	Per 10	Per 100
Alba, pure white.....	\$1.50	\$12.00
G. F. Wilson, the best blue.....	1.60	12.00
Fairy, sky-blue.....	1.60	12.00
Lilacina, lilac.....	1.50	12.00
Moerheim, deep salmon-pink.....	1.60	12.00
Rosea, clear rose-pink.....	1.50	12.00
Vivid, vivid pink with darker eye.....	1.75	15.00
Phlox Amoena, 6 in. tall, clear pink.....	1.50	12.00

Terms: Cash with order, or 25 per cent, balance C.O.D.

WALTERS GARDENS

Rt. 2 Zeeland, Mich.



## PHLOXES—Continued

PHLOX.		
Heavy Grade Stock.		
Prompt Delivery.		
	Per 100	Per 1000
B. Comte. Satiny amaranth.....	\$18.00	\$150.00
Bright Eyes. Brilliant red.....	18.00	150.00
Chas. Curtis. Sunset-red.....	18.00	150.00
Cheerfulness. Orange-red.....	18.00	150.00
Count Zeppelin. White with red eye.....	18.00	150.00
Daily Sketch. Salmon-pink.....	18.00	150.00
Dr. Klemm. Silvery-lavender.....	15.00	120.00
George Stipp. Glowing salmon.....	15.00	120.00
Harvest Fire. Fiery salmon-orange.....	18.00	150.00
Katrien. Light lavender.....	18.00	150.00
Leo Schlageter. Brilliant scarlet.....	22.50	180.00
Mary Louise. Late pure white.....	20.00	160.00
Painted Lady. Peach.....	18.00	150.00
Pinkette. Delicate pink.....	20.00	160.00
Progress. Light blue with deeper eye.....	18.00	150.00
Purple Heart. Deep blue-purple.....	18.00	150.00
Rosy Blue. Soft lavender-blue.....	18.00	150.00
Sonja. Pale blue, yellow eye.....	20.00	160.00
Starlight. Rich violet, white eye.....	18.00	150.00
Sweetheart. Pure salmon-pink.....	18.00	150.00
Von Laubsberg. Midseason white.....	15.00	120.00
Widar. Violet, white eye.....	15.00	120.00
250 or more of one variety at 1000 rate.		
THE WAYSIDE GARDENS CO.		
Mentor, Ohio		

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ROSEBUSHES, CLIMBERS.		
Blaze, Paul's Scarlet.		
Per 10	Per 50	Per 100
50c ea.	50c ea.	50c ea.
Waxed with colored pictures attached.		
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Over 7,300 subscribers, all active buyers.		
see your ad in the American Nurseryman.		

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SHADE TREES.		
Thornless Honey Locust.		
Each	Each	Each
per 10	per 100	per 1000
4 to 6 ft.....	\$0.45	\$0.40
6 to 8 ft.....	.75	.65
8 to 10 ft.....	1.00	.90
1 to 1 1/2-in.....	1.50	1.30
1 1/2 to 2-in.....	2.00	1.85
FARMER NURSERY		
Plainview, Tex.		

CHINESE ELM.		
Each	Each	Each
per 10	per 100	per 1000
6 to 8 feet.....	\$1.25	
8 to 10 feet.....	1.85	
10 to 12 feet.....	2.75	
Also Sweet Gum, Red Oak and Redbud.		
VERHALEN NURSERY CO.		
Ph. Yukon 9876		

ILLICUM ANISATUM. (Anise Tree).		
Nice, heavily rooted liners.		
Per 100	Per 100	Per 100
6 to 8-in. cuttings, transplanted.....	\$ 8.00	
8 to 12-in. cuttings, transplanted.....	10.00	
12 to 18-in. cuttings, transplanted.....	12.50	
BLACKWELL NURSERIES		
Semmes, Ala.		

BERBERIS THUNBERGII		
ATROPURPUREA		
Each	Each	Each
per 10	per 100	per 1000
Extra-heavy transplants.....	\$1.25	
12 to 15 in.....	\$0.30	
18 to 24 in.....	.45	
TWIN CEDAR NURSERY		
Williamsburg, Mass.		

LINING-OUT STOCK.		
We offer Chinese Chestnuts: Native Shrubs, Trees and Evergreens; Flowering Peach, Fruit and Shade Trees. Top-quality, dependable plants at reasonable prices.		
GLOBE NURSERIES		
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CHINESE ELM LINERS.		
Row-run seedlings, 3 to 6 ft.		
30c ea. per 10;	25c ea. per 100;	20c ea. per 1000.

FARMERS NURSERY		
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CALIFORNIA PRIVET.		
Row Run.		
15 to 30 inches, \$40.00 per 1000.		
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Phone: CE 1-8500		

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30,000 Sugar Maples, 1/2 to 3-inch cal., native seedbed, Special price on lot for fall planting.		

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RED OAK		
12 to 15 feet, A.K. 2 1/2-in.		
\$70.00 per 10; \$600.00 per 100, at nursery.		
RINGDAHL'S NURSERY		
Mohawk Acres Rome, N. Y.		

MAGNOLIAS.		
Potted in 2 1/2-in. pots, August, 1950.		
Soulangiana nigra, 6 to 8 ins.....	Each	\$0.25
Soulangiana.....	2 to 2 1/2 per cent nitrogen, pH 5.3 to 5.8.	.30
WELCH BROS. NURSERY		
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And Watch Sales Climb.

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MEL-LO PEAT.  
Pure sedge, sun-cured, air-dried, 96 per cent humus, 2 to 2 1/2 per cent nitrogen, pH 5.3 to 5.8. Greenhouse operators, florists and growers write us the results they have with Mel-lo. Nurserymen, write the Ohio State nursery, at Marietta, Ohio, and see what they think of Mel-lo. They use it; they know. Cemeteries like it, as it's easily worked into the soil, holds moisture at root level and germinates seeds quickly. Weighs only 50 lbs. per bag, which means low freight cost. No. 2, shredded, ideal for greenhouse and growers. No. 1, fine-milled for lawns, golf courses. Send check with order and order early.

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5 to 60 large 2-bu. bags,		
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51 to 100 large 2-bu. bags,		
F.O.B. our plant.....	1.25	
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F.O.B. our plant.....	1.15	
Excellent for pansies, African violets, azaleas, begonias, snap, cyclamen, camellias, carnations and many other plants.		
MEL-LO PEAT CO. Willard, Ohio		

Made from a good grade of Southern Yellow Pine, since Cypress is not available. Standard specifications, inside measurements.

KNOCK-DOWN FLATS.		
16x12x2 1/2.....	\$18.82	per 100
16x14x3 1/2.....	24.98	per 100
20x14x2 1/2.....	24.56	per 100
20x14x3 1/2.....	28.68	per 100
22 1/2x15x2 1/2.....	28.14	per 100
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All other sizes quoted on request. Prices F.O.B. Birmingham.		

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6x6 in. (cartons 1000 each).....	3.90	4.85
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GARDEN STAKES.  
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8x 1/2 in. (cartons 250 each)..... 2.50 3.00  
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A quality mixture of Sphagnum, Sedge and Reed Peats; 94 per cent organic; pH 4.6; contains nitrogen. Many customers say, "Best peat we have ever used."

Available in Polyethylene-lined burlap bags (120 lbs.), neat Satchel cartons, (35 lbs.) and in bulk.

Ready to use, no hard lumps, no presoaking necessary. More organic matter for your money than in clear Sphagnum baled peats. Ask for prices.

JUNIOR PEAT CO. Geneva, N. Y.

REDWOOD FLATS, K. D.  
Finest stock obtainable. Guaranteed all clear heart. Size 20x15x3 ins. inside measure, \$42.00 per 100.

1x1-in. Cypress stakes, pointed.  
50 pcs. to bundle, 4 ft., \$3.50 per bd.  
50 pcs. to bundle, 5 ft., \$4.50 per bd.  
50 pcs. to bundle, 6 ft., \$5.50 per bd.  
Ship same day. Cash with order, please.  
YOHO & HOOKER, Youngstown 2, Ohio

MINNESOTA WHITE CEDAR FLATS.  
12x16x2 1/2.....\$20.25 per 100  
14x20x2 1/2.....24.00 per 100  
14x20x3 1/2.....27.00 per 100  
Other sizes quoted on request. Also crating and other lumber. Aspen and Pine, F.O.B. Cook, Minn. Please attach check.  
H. C. HILL & SONS, Cook, Minn.

WISCONSIN'S QUALITY SPAGNUM MOSS.  
Clean, long-fibered, solidly packed in bur-lapped or wired bales of standard size, direct from drying beds. None better. Trucked when feasible.

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FOR LATE FALL, 1951.  
Ilex crenata macrophylla, rotundifolia, either variety, delivered Brooklyn, N. Y.

2000 18 to 24 ins.  
600 2 to 3 ft.  
250 3 to 4 ft.  
90 4 to 5 ft.

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90,000 Hedera helix, out of 2 1/2-in. pots, 3 strands, 12 ins. long, delivered Brooklyn, N. Y.

Want to contract now with cash deposit for cash transaction.

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5,000 Azalea cuttings, when wood is right this summer, varieties hardy to 10 below zero. Send varieties and price now.  
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White Japanese Quince.  
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## TRADE BOOKS

TRADE BOOKS.  
CULTIVATED CONIFERS,  
by L. H. Bailey, \$10.00.  
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by A. C. Hottes, \$4.00.  
MAINTENANCE OF SHADE AND ORNAMENTAL TREES AND SHRUBS,  
by F. P. Pirone, \$6.50.

IMPROVED PRACTICES IN PROPAGATION BY SEED,  
by L. C. Chadwick, 25c.

THE BOOK OF TREES,  
by A. C. Hottes, \$4.00.

LANDSCAPE WITH SHRUBS AND FLOWERING TREES,  
by Mary Deputy Lamon, \$8.50.

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by A. C. Hottes, \$3.00.

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by A. F. Gustafson, \$2.00.

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by Edward I. Farrington, \$1.50.

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by Florence B. Robinson, \$3.00.

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by L. H. Bailey, \$5.00.

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by M. G. Kains and L. M. McQueen, \$4.00.

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by Richard R. Fenska, \$5.00.

HOW TO GROW ROSES,  
by J. H. McFarland and Robert Fyfe, \$2.49.

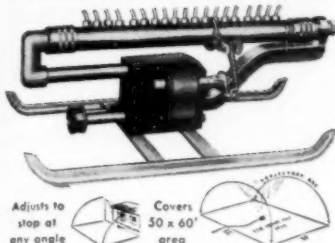
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Lessen root shock  
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Use it once—you will always

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STREATOR, ILL.

### SOUTHWESTERN NEWS.

W. H. Brown announces that he is no longer connected with the firm of Brown's Greenhouses & Nursery Co., Junction City, Kan. The partnership was dissolved April 1. The business will continue under the same name but will be owned and operated by Frank B. Brown.

The new address of Baughman Nursery & Gardens is 5911 West Maple, Wichita, Kan.

Williams & Harvey Nursery Co., Kansas City, Mo., has been awarded a contract for landscaping the extensive grounds of the new veterans' hospital at Kansas City.

W. A. Lawson, a former commissioner of the city of Topeka, has opened a nursery salesyard at 2600 West Twenty-first street, Topeka, Kan. It is operated under the name West Twenty-first Street Garden Center. J. P.

## reduce your transplanting losses with *Plantcote!*

Safe, economical Plantcote is an especially prepared liquid plastic, the result of extensive research and field testing. It is designed to stop transplanting losses by forming a thin, transparent, glossy coating over plant surfaces and sealing in the moisture. A concentrated product, requiring only the addition of water before spraying or dipping, Plantcote stretches as the plant grows and "snaps off" when new growth occurs. It is permanent on plants and materials which are not growing. Prepared especially for transplanting and for cut greens—Plantcote also keeps delicate greens from drying out and shriveling. It doubles the life of gardenias, ferns and similar products, prevents drying during shipment. Plantcote has been enthusiastically accepted by large nurserymen, landscape men, florists, vegetable growers and home gardeners. Plantcote is available in single gallons and sizes up to 55-gal. drums. Write today for complete details.

**NEWTON CHEMICAL & SUPPLY CO.**  
BRIDGEVILLE, DELAWARE

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**FAFARD**  
NATURE'S  
SOIL  
CONDITIONER

Makes sandy soil more  
compact - lightens heavy  
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from weed seeds and  
disease spores

HIGHLY ABSORBENT



**PEAT MOSS**

ORGANIC

Prevents leaching and  
wastes - improves aerat-  
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cial bacteria - is long  
lasting in the soil.

STIMULATES  
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Direct from our bog to you.

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Samples furnished on request

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**Kills Most  
Garden Insects**

- Economically
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SOLUBLE PLANT FOOD



**For beautiful  
luxuriant lawns**

Hy-Gro brings a balanced  
diet right to the roots. It  
can't burn even in hottest  
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nomical, so easy to use.  
Hy-Gro feeds your lawn  
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**FREE** booklet

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Suitable for Labeling

**Trees - Shrubs - Plants -  
etc.**

**Convenient - Economical**

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CINCINNATI 7, OHIO

## BURLAP SQUARES

Cut from used burlap.  
16x16 ins. to 40x40 ins.  
Mesh Cotton Net Squares  
22x22 ins.

Your inquiries are invited.  
**GENERAL PACKAGE CORP.**  
220-224 Badger Ave. NEWARK 8, N. J.

## OBITUARY

John P. Kamer.

John P. Kamer, owner and opera-  
tor of the Kaw Valley Nursery,  
Topeka, Kan., died at his home April  
18. He was 80.

Mr. Kamer was born in Russia in  
1870 and had lived in Topeka since  
1888. He had been a nurseryman  
most of his life, beginning with the  
J. H. Skinner Nursery, Topeka, as  
a young man and later working for  
L. R. Taylor & Sons, also at Topeka.  
About thirty-five years ago he started  
his own nursery, and later his sons  
joined him in the firm. Most of Mr.  
Kamer's business was the produc-  
tion of stock for other nurserymen  
on a contract basis. At the time of  
his death he was still growing stock  
for a firm that gave him one of his  
first contracts thirty-five years ago.

Mr. Kamer is survived by his  
widow, Mrs. Margaret Kamer, and  
by four sons, four daughters, two  
brothers, two sisters, twenty-seven  
grandchildren and fourteen great-  
grandchildren.

J. P.

Cornelius F. Daley.

Cornelius Daley, of C. F. Daley &  
Sons, Inc., Onancock, Va., died sud-  
denly March 31. A native of New  
Jersey, he conducted a nursery and  
landscape business at Midland Park,  
N. J., before moving to Onancock in  
1942 to become a wholesale grower  
of azaleas.

He is survived by his widow and  
four sons, one of whom, Robert A.  
Daley, will continue to operate the  
business.

Walter M. Booth.

Walter M. Booth, owner of Los  
Nietos Valley Nursery, Downey,  
Calif., died April 6. He had been in  
failing health for several months.

Born at Bennezzette, Pa., in 1864,  
Mr. Booth moved to Downey more  
than forty-one years ago and estab-  
lished Los Nietos Valley Nursery.  
With his wife, Hattie, he planted  
every tree and flower on the grounds,  
long a show place of the town. Mr.  
and Mrs. Booth had celebrated their  
fifty-third wedding anniversary  
March 4.

Mrs. J. E. Conard.

Mrs. Alice Conard, wife of J. E.  
Conard, of J. E. Conard & Son,  
Stigler, Okla., died April 25 at her  
home following a long illness.

Born at Bentonville, Ark., in 1878,  
she moved with her family to Ot-  
tawa, Kan., when she was a child.

## For BETTER COMPOST

W-W  
GRINDER  
and  
SCREEN



Grinds, or  
Mixes, or  
Screens

(PATENTED)

### Discards Rocks and Trash

Grinds manure, sod, tough and wet  
materials through rollers.  
Screens through perforated screens.  
Makes perfect compost of any mate-  
rial used for compost no matter how  
hard or wet or stringy.  
Ruggedly built for hard usage and to  
break up hard and tough materials.  
Long life and low operating cost.

**FREE** New compost circular,  
Facts of interest and  
real help to growers. Write for your  
copy. No obligation.

**W-W GRINDER CORP.**

Dept. F

Wichita, Kansas

## METAL LABEL MARKERS

**Immediate Delivery**

Steel wire stakes with galvanized  
or green enamel finish—Aluminum  
and Galvanized Labels.

Also other Ideal Garden Gadgets.

SEND FOR  
DESCRIPTIVE FOLDERS  
TODAY



LANSLING SPECIALTIES MFG. CO.

LANSLING 12, MICH.

## ROUGH BROTHERS

**Quality Greenhouses**

Write for plans and prices

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## A. M. & SON LEONARD

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Knives - Shears - Pruning Tools

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**PROTECT YOUR EVERGREENS,  
SHRUBBERY, FLOWERS AND LAWN**

Ornamental design adds to beauty of yard or garden.

Self-Supporting—No Stakes or Posts!

Easy to set up and just as easy to remove.

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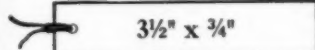
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(All-weather)



- Patented cardboard backing permits easy embossing with ordinary lead pencil.
  - Heavy eyelet. Copper-wired.
  - Attractive silver Aluminum, backed with yellow cardboard.
  - Inexpensively priced:
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|--------------|---------|-------------|--------|
| 1000 for.... | \$14.00 | 250 for.... | \$5.00 |
| 500 for....  | 9.00    | 100 for.... | 2.50   |

Write for samples.

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**BARTLETT MFG. CO.**  
3058 E GRAND BLVD.  
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for details  
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catalog  
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signs.

There she was married to Mr. Conard September 18, 1898. In February, 1912, Mr. and Mrs. Conard moved to Stigler, Okla., where Mrs. Conard helped her husband establish J. E. Conard & Son, one of the larger nurseries of the southwest. They celebrated their golden wedding anniversary in September, 1948.

Besides her husband, Mrs. Conard is survived by three daughters, a son, two sisters, one brother and six grandchildren.

J. P.

**DADE COUNTY OFFICERS.**

Members of the Dade County Nurserymen's Association met last month at Miami, Fla., and elected Earle R. Kelly their new president. Other incoming officers are Alan R. Engelbright, vice-president; Myrtle Armstrong, secretary, and Betty Chalk, treasurer.

The group will soon adopt an emblem which members may display as the hallmark of an ethical nurseryman. At the same time the association will undertake to see that members live up to highest ethical standards.

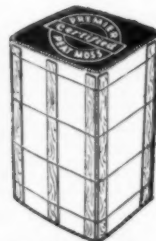
The group's next meeting is scheduled for May 17 at the Simpson memorial garden, at 8 p. m.

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**PREMIER CANADIAN PEAT MOSS**

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Specially Designed Curved Nose.  
All-Steel Construction electrically welded.  
Weight 46 pounds.  
Over-all Length 63 inches.  
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Capacity 28-in. Ball weighing 600 pounds.

Write for illustrated folder giving details and prices of the popular Garden Shop Nursery Hand Trucks.

**NOTE** Our NEW ADDRESS—We've moved our nursery and office to larger space and convenient location.

## THE GARDEN SHOP, Inc.

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Overland Park, Kansas

Phone HEdrick 3288 (Kansas City, Mo., exchange)

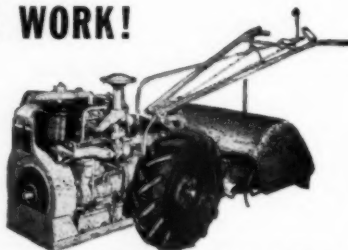


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For heavy-duty work. Pulverizes — aerates soil. Prepares level, spongy seedbed. 3 models: 7, 9, 12½-h.p. Wisconsin engine. Twin-Disc clutch. 2 speeds forward; reverse. Full tillage, 2 to 10 inches deep.



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For average-size gardens! Rotary tiller unit front-mounted for close, accurate cultivation. Handles easily! 2 to 2½-h.p. air-cooled engine. 3 speeds forward; semiautomatic freewheeling. Heavy-duty tines. 10 to 16-inch tillage. Write for details.

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**JOHN RUST MFG. CO.**

628 W. PATTERSON ST.  
KALAMAZOO 53, MICH.

## SALABLE HOLLY.

[Concluded from page 12.]

lighted to find it looking as well the following year as it did when it was purchased. This customer will tell his neighbors and urge them to buy holly by the very showing off of his own. He will champion it at his garden club meeting and will consider it in the back of his mind as a unique gift to give someone. One-customer-telling-another-chain-reaction sales are the world's best advertising.

Four, by common sense and comparison. Landscape men, plant market buyers, nurserymen who buy wholesale with intent to sell retail, all have done a lot to encourage progressive nurserymen to charge better prices for better holly. The manager on a buying trip is searching primarily for a reasonably priced product that will net him a good profit. If he finds a patch of holly for a bargain price, he will be likely to look twice and to apply some Yankee logic. Perhaps he has been "burned" before. If the soil is light and there has been no evidence of transplanting, he will perhaps remember the experience (that he possibly had) one time in his younger days when he bought a block of such holly in the fall. By next spring, practically all the leaves had fallen off, and the new foliage that started was very sparse and the leaves were tiny. The trees had shocked terrifically from cut roots—that year the plant market chalked red for holly. Even the second year following purchase, the trees heeled in, in back of his market, were sad compared to their original plumage. Experiences like that throughout the nursery industry have hurt holly; innumerable such sales to retailers have hurt, too. It is a hurt that does not show right off the bat, but a hurt which affects nation-wide sales.

Progressive landscape and plant market buyers have seldom given up, though, but have bought again elsewhere. Seldom do they buy twice at the same place where they have obtained holly with poor roots. Only those buyers too isolated to have heard or read of transplanted hollies will continue to buy stock which shocks badly. There is no money in it for the landscape or plant market trade.

Why not follow their lead? Boycott poor stock. Raise your price on better stock. Transplant and feed your own stock; raise your prices. Tell your customers what you have done, why you have done it and why it is to their benefit to pay more for better holly.

## INDUSTRY TRENDS.

[Continued from page 8.]

the depression. But even when better days ensued, competition kept some prices too low.

## Postwar Period.

With the end of the war in 1945, nurserymen looked to brighter days. During the past two or three seasons, nursery stock prices had risen because of higher costs, but, with the strong demand foreseen for several years to come and the liberal attitude of the public toward spending, nurserymen saw no need to think of price cutting to meet competition from other civilian goods that would become more plentiful. The end of the war saw the start of the home-building boom and also a big highway construction program. Prices on nursery stock did not climb to disproportionate figures as did those of other products during the war; so there was less reason for recessions from prices made necessary by the higher costs of labor and materials.

The year 1946 saw a larger proportion of personal income becoming spendable, as taxes were reduced and private income even exceeded its wartime peak, and all businesses were at peak despite stock market setbacks and the like. After the war came a wave of strikes, but nurserymen were able to complete spring shipping in 1946 before transportation was curtailed. Settlement of each round of strikes after the war brought higher wages and in turn higher prices. A federal poll showed a drop of three per cent of the number of gardens from 1945 to 1946, but showed that more persons expected to garden. With the end of rationing, one could expect a natural decrease in size and number of gardens, since many homeowners would no longer need to grow food crops.

By 1947 business failures were on the increase, though there were not so many in the nursery industry, as these failures were more in the line of unstable wartime enterprises. There was a housing recession until after spring, and then a marked increase in construction. Consumer buying was on the increase, with more civilian goods available. And while homeowners' money was attracted by other products, nurserymen did a good business, as shown by the 17.5 per cent increase over the previous year, indicating that plants held their own against the numerous products reappearing in stores.

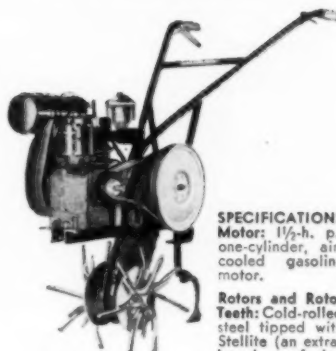
An early readjustment period with some easing in prices started the 1948 picture, but even a February break in commodity prices did not alter

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A Lightweight Rotary Cultivator  
for Garden or Greenhouse Bench

Light enough in weight for ease of operation and for convenient use in the greenhouse, yet very sturdy and reliable. Simplicity of construction insures dependability and long life.

Power is delivered directly to rotors—circular steel discs to which tough, protruding tines or teeth have been welded. There are no "wheels" in the usual sense. The operator simply retards the forward progress by sinking the cultivator tooth at the rear of the machine into the soil. This forces the rotor teeth to thoroughly stir, mix and mulch the soil at the desired depth while continuing to move slowly forward.



**SPECIFICATIONS**  
Motor: 1 1/2-h. p.,  
one-cylinder, air-  
cooled gasoline  
motor.

**Rotors and Rotor  
Teeth:** Cold-rolled  
steel tipped with  
Stellite (an extra-  
hard surfacing  
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**Cultivating Depth:** Up to 10  
inches.

**Cultivating Width:** With  
standard rotors, 12 inches;  
with double rotors, 24 inches.  
**Full Power single outside re-  
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days, if not delighted, return for full refund.

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Dealers: Write for Special Offer!

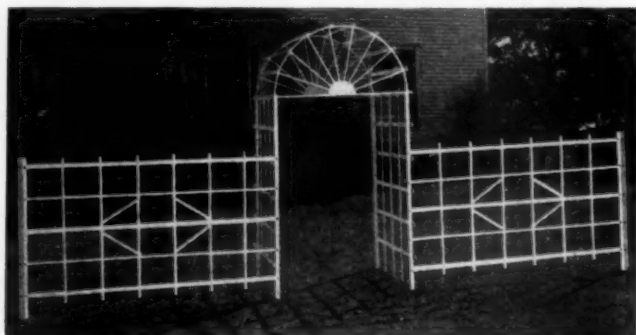
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### STANWADE METAL PRODUCTS

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Box 23 Hartford, Ohio

things, and business was at or near an all-time peak. Incomes were high, with hourly wages over twenty-five per cent greater than the wartime peak of June, 1945. Lower withholding taxes were one reason for a rise in consumer spending. The phenomenal demand for fruit trees saw its end in 1948 as the result of low prices for crops to orchardists and the waning of the victory garden urge. Nurserymen had been warned, but did not act to level off production. The mail-order business was good during the war and shortly thereafter, with physical volume up, but the cash total trend was down in 1948, indicating a larger number of smaller orders, adding to the high cost of doing business. By 1948 the rosebush supply had recovered from the wartime shortage, and prices were down. Part of the cut was justified, but some nurserymen went too far in competitive slashing of prices. Fruit tree nurserymen tried price cutting, too, but to no avail.

By 1949 few manufactured articles were far short of demand, and business was seeking its level. The buoyancy created by wartime shortages, inflation, high wages, high taxes and booming business was evaporating. The effect was different in various fields. In the nursery industry, wartime shortages and lack of labor maintained prices. Since some of the gains of wartime prosperity were denied nurserymen, enjoyment of good business was expected for a longer period than for other lines. The demand for residential construction continued unfulfilled, while personal incomes continued to grow larger. Begun in 1946, the housing boom has continued to be one of the principal supports of current prosperity of the nation's business in general as well as of the nursery business in particular. This boom reached new heights each year, with a record of 1,300,000 home dwelling units started in 1950. Because of ma-

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PATENTED  
EXCLUSIVE  
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3-inch Roller Bearing at  
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This rugged, durable Roper Digger works perfectly in shale, stony clay, sandstone, any tough soil. Easily installed by one man in 5 minutes; fits any jeep or tractor. Cuts planting and transplanting time way down.

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NO WOBBLING or breaking . . . Safety shear pin is at universal and is easily replaced in field. Three models to choose from that dig up to 42-in. holes; from 8 to 24 ins. in diameter.

Write for free information and name of nearest dealer. FULL YEAR GUARANTEE on all parts and workmanship . . .

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### NEW McLEAN GARDEN TRACTORS

- For
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THE WORLD'S BEST — 100% SOLUBLE

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Just as you water!

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terial shortages caused by renewed defense efforts, it is expected that this will drop to about 800,000 starts for 1951.

The year 1950 was characterized by a decline in frenzied spending, except for a slight flurry after our entry into the Korean war, but it abated when it was seen that scarcities were not at hand. For the first time since the war years people were disposed to save rather than spend. Liquid savings decreased every year from 1945 to 1949, but in 1950 individuals increased their liquid savings by \$3,800,000,000, mostly in currency and bank deposits.

For the first two months of 1951, sales stayed near peak in many lines, though there was no panic buying. For the past two months defense orders have increased appreciably, but a survey of purchasing agents reveals a slack in new civilian business, with production down seventeen per cent and orders off in April.

The wholesale price index has been virtually at a standstill for the past two months, reflecting continued wariness of both consumers and industrial buyers. The cost of living is almost ten per cent above a year ago, with recent increases mostly in other things than food. Some observers feel that we are now experiencing only a temporary lull while the economy digests a buying spree and works off a hangover, and that another six to nine months will see inflationary pressure mounting again as defense spending and increased employment go into high gear. Defense spending heaped on top of a peacetime boom, an already inflated money supply that is likely to expand, full employment and pressure by unions for higher wages and by farmers for higher prices are but four factors that should keep prices up.

In view of high civilian production, increased defense production and the draft's drawing on available labor, the prospect of a tighter labor market presents itself to nurserymen for the season ahead. Whether personal income will climb to a new all-time record is a question. But in view of the all-around economic picture, it does not seem likely that it will fall off at all. Whether taxes will increase and thereby reduce spendable income is a question yet to be answered by Congress; the administration has asked for increases. With the government requiring such huge sums for defense and other items on the budget, tax increases are indeed likely. On such factors—and a myriad others—hinge the nursery industry's dollar volume for 1951 and nursery stock prices for 1952.

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- ✓ Saves time and labor on the big, profitable jobs.



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- High geared for fast cultivation.
- Plant guard to pick up low branches and foliage.
- Tines are a series of little hoes that will not clog or tangle.
- Gives a perfect, weed-free ground-mulched cultivation.



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*The ORIGINAL* SWISS ROTARY TILLER

*"The Machine that is Copied, But Never Equaled!"*

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### THE NEW MODEL B LINDIG SOIL SHREDDER

*The World's Finest*

Improved performance with

- Actioned Shredding Blades
- Increased Capacity
- More Uniform Shredding

Write for descriptive folder and prices and name of your nearest dealer.

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Presto is used by such leading colleges as—  
Cal. Inst. of Technology  
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Experimental stations as—  
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## Wash over 1000 pots per hour with **PRESTO FLOWER POT WASHER**

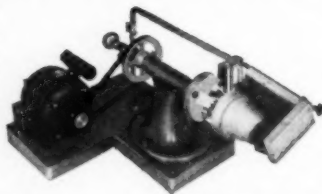
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Removes all dirt, roots and debris, inside and out, in one easy operation. Has leakproof ball bearings, automatic alignment of brushes, valve-regulated water supply.

**SAVE MAN-HOURS—CLEAN FLOWER POTS  
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Towson Nurseries, Inc., Towson, Maryland

### PLANT NOTES.

[Continued from page 19.]

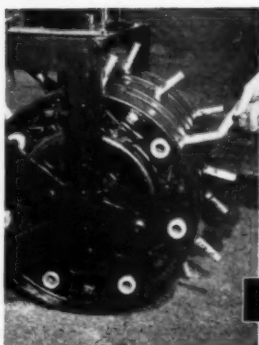
pervivums are a specialty to a garden where they are used with understanding knowledge. The propagating beds in the nursery were, with good reason, almost pure sand, and the soil of the show garden looked equally sterile and parched. As a result, the only sempervivums that showed their worth were the small ones, especially the cobwebs, such as *S. arachnoideum* and *S. fauconnetii*. The kinds with normally large rosettes were a starved, depauperated lot, a fact that was made particularly vivid by the short time between my visits to the nursery and to a private garden, where the large ones were used as I think they should be. They were planted in a deep, fairly rich soil and, in some cases at least, as in the all-green forms, part shade.

A personal experience may be in order here. A chance, all-green seedling in our garden showed so much promise in its early stages that it was allowed to grow where it appeared in the poor soil and sunny spot along a path. Growing to maturity there, it proved to be just another green sempervivum with signs of being an extra-large one if given a chance. For that reason, we moved it to good soil, thoroughly enriched with rotted manure, in the shade of a juniper. There it grew into lovely, pale green rosettes about fifteen inches across.

But to get back to the garden mentioned before, I found highly colored forms of *S. tectorum* in soil made rich with rotted manure and leaf mold that would send any gardener into raptures. Even the cobwebs, which I always thought should be kept on a starvation diet, were better in most cases when well fed.

### Some Sandworts.

A North Carolina reader asks for a brief discussion of sandworts, specifically two or three kinds for local



## SOIL-AIRE

### THE MECHANICAL EARTHWORM

These hollow tines that penetrate the soil and let air, water and fertilizer down to the roots are a great means of growing grass. They also are a great means of putting dollars in the till of wide awake landscape men.

Aeration is here—send for the Soil-aire catalog.

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With the **AUTOMATIC DRIVES**

### Installed

on your Rototiller, the operator is able to make a turn at either end of a row very easily with ONE hand, as one or the other wheel **FREES AUTOMATICALLY** when turn is started, and when turn is completed that wheel locks into **POSITIVE** forward driving position and both wheels drive forward until another turn is started. The "Hard-to-Stop" Model B1-4 can be stopped on "The Spot" when equipped with Drives. Rototillers equipped with reverse units will turn under their own power by pulling the reverse lever into reverse position. Transmission oil leaks can be permanently stopped with our special oil seals if installed in connection with Automatic Drives. For descriptive literature see your local Rototiller dealer or write direct to

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## "RAIN MAKER" SPRINKLER

The 1951 model has a most wonderful power plant and is constructed of quality rustproof material of the most simple design. Built for a lifetime of service and guaranteed for one year against imperfections in workmanship and material defects. The "Rain Maker" distributes a fan-shaped oscillating spray of water over an area of from 30 to 60 feet on ordinary water pressure. See your local hardware dealer. If he does not carry it, write:



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Spray, paint or dip transplanted trees and shrubs to reduce loss of moisture and winter wind burn.

55-gal. drum....\$63.25 5-gal. drum.....\$7.00

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## RABBIT REPELLENT

Protect young nursery stock. Nonpoisonous. Applied by spraying or painting.

55-gal. drum....\$74.25 5-gal. drum....\$10.00

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## BORER REPELLENT

Dogwood and many other ornamental trees should be protected from borer damage. Nonpoisonous. Simply brush it on as directed.

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- Our biggest selling model
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RETAIL PRICE, \$11.50  
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Makers of Famous Real-Real  
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Actual Photograph  
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Roots like these can be grown by  
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### FIELD STAKE

1 7/8 x 3/4 x 24 ins.

White Pine painted aluminum.

**\$27.50** per 100

500 or more,

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Sample sent on request.

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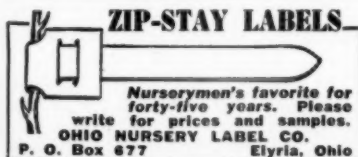
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sale. Considering his geographical location, I should place *Arenaria balearica* at the head of the list. It makes broad, bright green cushions, rarely over an inch or two high, covered with tiny white flowers in spring. This is a mossy thing for a cool, moist spot, which will cover up a host of sins of omission and commission, as well as any frail plants in its pathway. It is especially good for the joints of stone steps and walks in shade. Experience here in northern Michigan, where it is not fully hardy, has shown that the plant needs an even, constant supply of moisture. Bogginess is not desirable, but merely a condition approximating good garden soil that receives a good rain once a week.

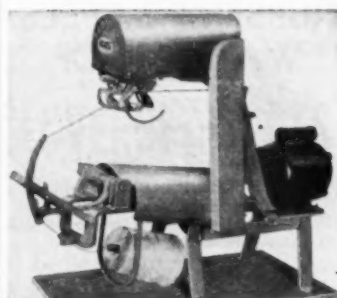
Three or four forms of *A. verna* should find favor with our correspondent, for they are even friendlier than *A. balearica*, making patches of green moss and, in spring, having the characteristic white flowers of the family. The form known as *caespitosa*, as well as the type, burns badly here in full sun; so we always give it shade during the middle of the day. On the other hand, the form called variety *aurea*, with greenish-yellow leaves, seldom becomes unsightly from hot sunshine, provided it is not allowed to become desert-dry.

The easiest and, I believe, the best of the sandworts that we have grown is *A. montana*. Growing from three to six inches in height, largely depending upon soil fertility and moisture, and adapting itself to either sunshine or partial shade, it is admirably fitted to fill a number of roles in gardens. All of the *arenarias* are easily grown from seeds, and this one is no exception. It germinates readily and grows apace into broad masses of slender foliage which are smothered with spectacularly large white flowers in late spring. *A. montana* requires sharp drainage.

### Anacyclus.

Correspondence recently with a Pennsylvania reader, wherein he commented on my remarks in these columns several years ago on a plant known in the trade as *Anacyclus depressus*, prompts me to add some later observations on the plant. As his own experience in its behavior almost exactly coincided with mine, I shall combine the two.

Some months after allied troops went into northern Africa during World War II a reader of this column sent me 100 or more packets of seeds, most of them unnamed, which he had gathered as his part of the army



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went forward. Growing that lot of seeds was one of the most interesting garden experiences I ever had, every day from germination to maturity being filled with anticipation, although I knew that many would not be hardy enough to withstand our cold winters. It was surprising, however, to find that nearly half of the different kinds went through the first winter, and I was able to turn over about twenty species to the soldier when he returned. A few of the plants tested here were good enough for wide distribution and hardy enough for all except the coldest part of the country.

Among them was a low composite which I had had years before from an English friend under the name of *Anacyclus depressus*. I am not sure about the validity of the name, because these north African composites are variously known as *anacyclus*, *chrysanthemum*, *pyrethrum* and perhaps others, and only a well trained systematic botanist knows his way in the maze.

In addition to being notable for its hardiness, the plant is also known for its mat of ferny, silky foliage, a good recommendation in any plant, and for a long display, as one is apt to find in the composite family, of large white daisies, crimson at the tip and on the lower side of its petals. The flowers are held tightly against the low tufts of leaves, making *A. depressus* a good plant to use as an edging for the front of the border, for sunny slopes in rock gardens and for wall planting. The length of its flowering season was never constant here, so that I was not surprised to hear our Pennsylvania reader make the same report. It sometimes lasted throughout the summer and at other times was confined to a month or two in late spring and early summer. The reason or reasons for that variable behavior are not apparent from experience here, and our correspondent offered no suggestions.

Anyway we look at it, the plant has more than the average value as a garden plant. I cannot vouch for its hardiness in northern areas with snowless winters, but it would be worth a trial. Because of the nature of its leaves, I should not expect it to endure long in a heavy soil on a flat surface, even in mild sections. It is easily grown from fall-planted seeds—perhaps from seeds planted at any time of the year—and from cuttings taken in summer.

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